BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1251

| In the Matter of |) | |
|---|---|---------------------|
| Application of Duka Engage Decomps LLC |) | |
| Application of Duke Energy Progress, LLC |) | |
| for Approval of Renewable Energy and |) | DIRECT TESTIMONY OF |
| Energy Efficiency Portfolio Standard (REPS) |) | MEGAN W. JENNINGS |
| Compliance Report and Cost Recovery Rider |) | |
| Pursuant to N.C. Gen. Stat. 62-133.8 and |) | |
| Commission Rule R8-67 |) | |

| 1 | 0. | PLEASE | STATE YOUR | R NAME AND | BUSINESS | ADDRESS. |
|---|----|---------------|------------|------------|----------|----------|
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- 2 A. My name is Megan W. Jennings, and my business address is 400 South
- 3 Tryon Street, Charlotte, North Carolina.
- 4 Q. PLEASE STATE YOUR POSITION WITH DUKE ENERGY AND
- 5 DESCRIBE YOUR CURRENT RESPONSIBILITIES.
- 6 A. In my capacity as Renewable Compliance Manager, I am responsible for the
- 7 development and implementation of renewable energy compliance strategies
- 8 for Duke Energy Progress, LLC ("Duke Energy Progress," "DEP" or "the
- 9 Company"), Duke Energy Carolinas, LLC ("Duke Energy Carolinas" or
- 10 "DEC") and Duke Energy Ohio, LLC. My responsibilities include
- 11 compliance with North Carolina's Renewable Energy and Energy
- 12 Efficiency Portfolio Standard ("REPS"), compliance with Ohio's
- Renewable Portfolio Standard and evaluation of renewable generation
- initiatives and customer programs that relate to renewable compliance.
- 15 Q. PLEASE BRIEFLY SUMMARIZE YOUR EDUCATIONAL
- 16 **BACKGROUND.**
- 17 A. I received a Bachelor of Science in Mathematical Sciences from Clemson
- 18 University and a Master of Financial Mathematics from North Carolina
- 19 State University.
- 20 O. PLEASE DESCRIBE YOUR BUSINESS BACKGROUND AND
- 21 **EXPERIENCE.**
- 22 A. I joined Progress Energy, Inc. in 2008, where I held positions in Investor
- Relations and Regulatory Planning. Following the merger of Progress

| 1 Energy, | Inc. with | Duke | Energy | Corporation, | I worked in | the Rates and |
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- 2 Regulatory Strategy Department until June of 2015, when I moved to my
- 3 current position as Renewable Compliance Manager in the Distributed
- 4 Energy Technology Department.

5 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE NORTH

6 CAROLINA UTILITIES COMMISSION?

- 7 A. Yes, I most recently provided testimony in Docket No. E-7, Sub 1229 on
- 8 DEC's 2019 REPS compliance report and application for approval of its
- 9 REPS cost recovery rider.

10 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

- 11 A. The purpose of my testimony is to describe Duke Energy Progress'
- activities and the costs it has incurred, or will incur, in support of
- compliance with North Carolina's Renewable Energy and Energy
- Efficiency Portfolio Standard ("REPS") under N.C. Gen. Stat. ("G.S.") §
- 15 62-133.8 during the twelve months beginning on April 1, 2019 and ending
- on March 31, 2020 ("Test Period"), as well as during the twelve months
- beginning on December 1, 2020 and ending on November 30, 2021
- 18 ("Billing Period").

19 Q. PLEASE DESCRIBE THE EXHIBITS TO YOUR TESTIMONY.

- 20 A. My testimony includes seventeen exhibits: Jennings Confidential Exhibit
- No. 1 is the Company's 2019 REPS Compliance Report, and Jennings
- 22 Confidential Exhibit No. 2 provides actual and forecasted REPS compliance
- costs, by resource, that the Company has incurred during the Test Period

| 1 | | and projects to incur during the Billing Period in support of compliance with |
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| 2 | | REPS. Jennings Confidential Exhibit No. 3 is a worksheet detailing the |
| 3 | | other incremental costs included in this filing, listing separately labor and |
| 4 | | non-labor costs, as directed by the Commission in its January 17, 2017 |
| 5 | | Order Approving REPS and REPS EMF Rider and REPS Compliance |
| 6 | | Report in Docket No. E-2, Sub 1109. Jennings Exhibit Nos. 4-17 are the |
| 7 | | results of studies the costs of which the Company is recovering via the |
| 8 | | REPS Rider. |
| 9 | Q. | WERE THESE EXHIBITS PREPARED BY YOU OR AT YOUR |
| 10 | | DIRECTION AND UNDER YOUR SUPERVISION? |
| 11 | A. | Jennings Confidential Exhibit Nos. 1-3 were prepared by me or under my |
| 12 | | supervision. Jennings Exhibit Nos. 4-17 include the results of studies not |
| 13 | | prepared under my supervision. However, in my role at Duke Energy, I am |
| 14 | | familiar with the studies. |
| 15 | | Compliance with REPS Requirements |
| 16 | Q. | WHAT ARE DUKE ENERGY PROGRESS' REPS |
| 17 | | REQUIREMENTS UNDER G.S. § 62-133.8? |
| 18 | A. | Pursuant to G.S. § 62-133.8, as an electric power supplier, Duke Energy |
| 19 | | Progress is required to comply with the overall REPS requirement ("Total |
| 20 | | Requirement") by submitting for retirement a total volume of renewable |
| | | |

¹ In its Order Clarifying Electric Power Suppliers' Annual REPS Requirements, Docket No. E-100, Sub 113 (November 26, 2008), the Commission clarified that the calculation of these requirements for each year shall be based upon the electric utility's North Carolina retail sales for the prior year.

| 1 | energy certificates ("RECs") equivalent to the following percentages of its |
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| 2 | North Carolina retail sales in the prior year: |
| 3 | Beginning in 2012, three percent (3%); |
| 4 | ■ In 2015, six percent (6%); |
| 5 | ■ In 2018, ten percent (10%); and |
| 6 | ■ In 2021 and thereafter, twelve point five percent (12.5%). |
| 7 | Furthermore, each electric power supplier must comply with the |
| 8 | requirements of G.S. §§ 62-133.8 (d), (e), and (f) (individually referred to |
| 9 | as the "Solar Set-Aside," "Swine Waste Set-Aside," and "Poultry Waste |
| 10 | Set-Aside," respectively). That is, within the Total Requirement described |
| 11 | above, each electric power supplier is to ensure that specific quantities of |
| 12 | qualifying solar RECs, swine waste RECs, and poultry waste RECs are also |
| 13 | submitted for retirement. The Company generally refers to its Total |
| 14 | Requirement net of the three set-asides as its "General Requirement." |
| 15 | Specifically, each electric power supplier is to comply with the Solar |
| 16 | Set-Aside by submitting for retirement a volume of qualifying solar RECs |
| 17 | equivalent to the following percentages of its North Carolina retail sales in |
| 18 | the prior year: |
| 19 | Beginning in 2010, two-hundredths of one percent (0.02%); |
| 20 | ■ In 2012, seven-hundredths of one percent (0.07%); |
| 21 | ■ In 2015, fourteen-hundredths of one percent (0.14%); and |
| 22 | ■ In 2018 and thereafter, two-tenths of one percent (0.2%). |

| Each electric power supplier is also to comply with the Swine Waste |
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| Set-Aside by submitting for retirement a volume of qualifying swine waste |
| RECs equivalent to its pro-rata share of total retail electric power sold in |
| North Carolina multiplied by the statewide, aggregate swine waste set-aside |
| requirement. ² Duke Energy Progress' Swine Waste Set-Aside |
| requirements, as modified by the Commission, ³ are as follows: |
| ■ In 2018, its pro-rata share of two-hundredths of one percent (0.02%) |
| of the total retail electric power sold in North Carolina in the year |
| prior; |
| ■ In 2019, its pro-rata share of four-hundredths of one percent (0.04%) |
| of the total retail electric power sold in North Carolina in the year |
| prior; |
| ■ In 2020, its pro-rata share of seven-hundredths of one percent |
| (0.07%) of the total retail electric power sold in North Carolina in |
| the year prior: |

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² In its Order on Pro Rata Allocation of Aggregate Swine and Poultry Waste Set-Aside Requirements and Motion for Clarification in Docket No. E-100, Sub 113 (March 31, 2010), the Commission approved the electric power suppliers' proposed pro-rata allocation of the statewide aggregate swine and poultry waste set-aside requirements, such that the aggregate requirements will be allocated among the electric power suppliers based on the ratio of each electric power supplier's prior year retail sales to the total statewide retail sales.

³ In its *Order Modifying the Swine and Poultry Waste Set-Aside Requirements And Providing Other Relief* (December 16, 2019) and its *Errata Order* (February 13, 2020), Docket No. E-100, Sub 113, the Commission modified the 2019 Swine Waste Set-Aside requirement for electric public utilities to 0.04% and delayed by one year the scheduled increases to the requirement. The Commission also modified the 2019 Poultry Waste Set-Aside requirement to 500,000 MWh and delayed by one year the scheduled increases in the requirement.

| 22 | | REQUIREMENTS FOR THE TEST AND BILLING PERIODS. |
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| 21 | Q. | PLEASE DISCUSS DUKE ENERGY PROGRESS' REPS |
| 20 | | Duke Energy Progress' retail customers. |
| 19 | | accompanying exhibits reflect the aggregation of the REPS requirements of |
| 18 | | The requirements that are described in this testimony and |
| 17 | | ■ In 2021 and thereafter, its pro-rata share of 900,000 MWh. |
| 16 | | ■ In 2020, its pro-rata share of 700,000 MWh; and |
| 15 | | ■ In 2019, its pro-rata share of 500,000 MWh; |
| 14 | | ■ In 2018, its pro-rata share of 300,000 MWh; |
| 13 | | ("MWh"); |
| 12 | | Beginning in 2014, its pro-rata share of 170,000 megawatt-hours |
| 11 | | Commission, are as follows: |
| 10 | | Energy Progress' Poultry Waste Set-Aside requirements, as modified by the |
| 9 | | of the aggregate state-wide poultry waste set-aside requirement. Duke |
| 8 | | a volume of qualifying poultry waste RECs equivalent to its pro-rata share |
| 7 | | Finally, each electric power supplier is also to submit for retirement |
| 6 | | year prior. |
| 5 | | (0.2%) of total retail electric power sold in North Carolina in the |
| 4 | | ■ In 2025 and thereafter, its pro-rata share of two-tenths of one percent |
| 3 | | year prior; and |
| 2 | | (0.14%) of total retail electric power sold in North Carolina in the |
| I | | In 2022, its pro-rata share of fourteen-hundredths of one percent |

| A. | For the Test Period, the Company submitted for retirement 3,863,083 RECs, |
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| | which included 2,822 Senate Bill 886 (S.L. 210-195, "SB 886") RECs, each |
| | of which counts for two poultry waste and one general REC, to meet its |
| | Total Requirement of 3,868,727 RECs. Within this total, the Company |
| | submitted for retirement 77,375 RECs to meet the Solar Set-Aside |
| | requirement, 134,105 RECs, along with 2,822 SB 886 RECs (which count |
| | as 5,644 Poultry Waste Set-Aside RECs), to meet the Poultry Waste Set- |
| | Aside requirement of 139,749 RECS, and 15,475 RECs to meet the Swine |
| | Waste Set-Aside requirement. During the prospective Billing Period, |
| | which spans two calendar years, with different requirements in each year, |
| | the Company's estimated requirements are as follows ⁴ : |
| | In 2020, the Company estimates that it will be required to submit for |
| | retirement 3,793,823 RECs to meet its Total Requirement. Within this total, |
| | the Company is also required to retire the following: 75,877 solar RECs, |
| | 26,557 swine waste RECs and 195,649 poultry waste RECs. |
| | In 2021, the Company estimates that it will be required to submit for |
| | retirement 4,690,561 RECs to meet its Total Requirement. Within this total, |
| | the Company estimates that it will be required to retire approximately |
| | 75,049 solar RECs, 26,268 swine waste RECs and 251,548 poultry waste |
| | RECs. |

21 Q. HAS THE COMPANY COMPLIED WITH ITS GENERAL
22 REQUIREMENT FOR 2019?

Direct Testimony of Megan W. Jennings Duke Energy Progress, LLC

⁴ The Company's projected requirements are based upon retail sales estimates and will be subject to change based upon actual prior year North Carolina retail sales data.

| 1 | A. | Yes, the Company has met its 2019 General Requirement of 3,636,128 |
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| 2 | | RECs. Specifically, the RECs to be used for 2019 compliance have been |
| 3 | | transferred from the North Carolina Renewable Energy Tracking System |
| 4 | | ("NC-RETS") Progress Energy Electric Power Supplier account to the |
| 5 | | Progress Energy Compliance Sub-Account. Upon completion of this |
| 6 | | regulatory proceeding, the Commission will finalize retirement of the |
| 7 | | RECs. |
| 8 | Q. | WILL THE COMPANY COMPLY WITH ITS GENERAL REPS |
| 9 | | REQUIREMENT IN 2020? |
| 10 | A. | Yes, the Company is well positioned to comply with its General REPS |
| 11 | | Requirement in 2020. |
| 12 | Q. | WHAT ACTIONS HAS THE COMPANY TAKEN DURING THE |
| 13 | | TEST PERIOD TO SATISFY ITS CURRENT AND FUTURE REPS |
| 14 | | REQUIREMENTS? |
| 15 | A. | During the Test Period, Duke Energy Progress has continued to produce |
| 16 | | and procure RECs to satisfy its REPS requirements. Specifically, the |
| 17 | | Company has taken the following actions: (1) executed and continued |
| 18 | | negotiations for additional REC purchase agreements with renewable |
| 19 | | facilities; (2) solicited renewable energy proposals of various types; (3) |
| 20 | | continued operations of its solar facilities; (4) continued to fully utilize |
| 21 | | energy savings generated by its energy efficiency programs, that can be |
| 22 | | counted towards the Company's REPS requirement; (5) performed research |
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| 1 | Company's ability to comply with its future REPS requirements; and (6) |
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| 2 | issued a second Request for Proposals as part of the Competitive |
| 3 | Procurement of Renewable Energy ("CPRE") Program of North Carolina |
| 4 | House Bill 589 (S.L. 2017-192, "NC HB 589"), the RECs from which will |
| 5 | be used to meet the Company's future REPS requirements. |

Q. IS THE COMPANY ABLE TO USE RECS GENERATED FROM NET METERING FACILITIES TO SATISFY ITS FUTURE REPS REQUIREMENTS?

Yes. Under the current Net Metering for Renewable Energy Facilities Rider offered by DEP (Rider NM-4B), a customer receiving electric service under a schedule other than a time-of-use schedule with demand rates ("NMNTD customer") shall provide any RECs to DEP at no cost. Per the Commission's June 5, 2018 Order Approving Rider and Granting Waiver Request ("NMNTD Order") in Docket Nos. E-2, Sub 1106 and E-7, Sub 1113, for NMNTD customers, DEP may use the PVWattsTM Solar Calculator developed by the National Renewable Energy Laboratory ("NREL") for estimating the generation from NMNTD customers' solar facilities, as permitted by Commission Rule R8-67(g)(2). Commission Rule R8-67(g)(2) allows the use of a scalable conversion factor for estimating annual generation from program participants. DEP shall then report the total amount of electricity produced by facilities under the Rider directly into NC-RETS in a separately identified generation project. DEP has complied with these requirements and reported generation from NMNTD customers

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| 1 | | to NC-RETS. The RECs from these facilities are currently in DEP's REC |
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| 2 | | inventory and available for use for future compliance requirements. |
| 3 | Q. | ARE THERE OTHER COMPLIANCE REQUIREMENTS IN THE |
| 4 | | NMNTD ORDER WITH WHICH DEP MUST COMPLY? |
| 5 | A. | Yes. The NMNTD Order also requires that DEP shall provide NC-RETS on |
| 6 | | a monthly basis with a list of participating customers, including location |
| 7 | | and the kW capacity of their installations, to be made available on the NC- |
| 8 | | RETS website. DEP has complied, and continues to comply, with this |
| 9 | | requirement. In addition, the NMNTD Order requires that, for two years, |
| 10 | | DEP shall verify through site visits to a statistically significant number of |
| 11 | | participating residences that the solar installations covered by this Rider |
| 12 | | continue to be operating and shall include the findings of its site visits in its |
| 13 | | annual REPS compliance filing. |
| 14 | Q: | HAS DEP PERFORMED THE SITE VISITS REQUIRED BY THE |
| 15 | | NMNTD ORDER? |
| 16 | A. | Yes, DEP hired a third-party contractor, Pure Power Contractors, Inc., to |
| 17 | | perform the required site visits. A total of seventy-four site visits took place |
| 18 | | between February 12, 2019 and May 1, 2019, with inspections taking place |
| 19 | | in Raleigh, Cary, Asheville and Lumberton. The inspection process |
| 20 | | consisted of a visual inspection of the facility equipment, with the following |
| 21 | | data points collected at each facility: |
| 22 | | • Energy production readings were taken from the inverter displays or |
| 23 | | monitoring equipment; |

| 1 • | Equi | pment | make | and | model | numbers; |
|-----|------|-------|------|-----|-------|----------|
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- Weather conditions:
- Array tilt, azimuth and insolation readings; and
- Meter numbers.

5 Q. THROUGH THESE SITE VISITS, WAS IT DETERMINED THAT

6 PRODUCTION FROM INSTALLED SYSTEMS MET

7 EXPECTATIONS?

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- A. Yes, the site visits determined that production from installed systems has met expectations. For the net metering facilities included in the sample, the PVWattsTM Solar Calculator produced an average generation estimate of 9.64 MWh/yr. The historical production data collected from inverter readings during the site visits demonstrated an average production for the sample group of 9.13 MWh/yr. This resulted in an overall average realization rate of 95%, which is calculated by dividing the verified annual production by the expected annual production for each customer and taking the sample average. These findings indicate that the PVWattsTM production estimate methodology remains reasonable for predicting future MWh/yr. for program participants.
- 19 Q. HOW WILL THE CPRE PROGRAM OF NC HB 589 IMPACT DEP'S
 20 COMPLIANCE WITH ITS GENERAL REQUIREMENT?
- 21 A. Under G.S. § 62-110.8(a), DEC and DEP (the "Companies") are responsible 22 for procuring renewable energy and capacity through a competitive 23 procurement program with the purpose of adding renewable energy to the

state's generation portfolio in a manner that allows the Companies to continue to reliably and cost-effectively serve their customers' future energy needs. To meet the CPRE Program requirements, the Companies must issue requests for proposals to procure energy and capacity from renewable energy facilities in the aggregate amount of 2,660 MW (subject to adjustment in certain circumstances) reasonably allocated over a term of 45 months beginning on February 21, 2018, when the Commission approved the CPRE Program.

Renewable energy facilities eligible to participate in the CPRE solicitation(s) include those facilities that use renewable energy resources identified in G.S. § 62-133.8(a)(8), the REPS statute. The renewable energy facilities to be developed or acquired by the Companies, or procured from a third party through a power purchase agreement under the CPRE Program, must also deliver to the Companies the environmental and renewable attributes, or RECs, associated with the power. The Company's annual CPRE Program Plan, filed on September 3, 2019 in Docket No. E-100, Sub 157, includes a planned allocation of ~1,230 to ~1,880 MWs between the DEC and DEP service territories, as well as a planned timeline for each solicitation. Additional details regarding DEP's CPRE compliance activities for the current Test Period are being filed concurrently with this REPS filing and may be reviewed in Docket No. E-2, Sub 1254. DEP plans to use the RECs acquired through the CPRE RFP solicitations for its future REPS compliance requirements and has therefore included the planned MW

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| allocation and timeline in its REPS compliance planning process. The |
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| Company intends to recover the reasonable and prudent costs incurred to |
| implement the CPRE Program through the CPRE Rider as contemplated |
| under Commission Rule R8-71(j). However, absent recovery of any such |
| costs to implement the CPRE program in future CPRE proceedings, the |
| Company would propose to recover the costs in a future REPS proceeding |
| as an incremental cost of procuring RECs to meet its REPS compliance |
| requirement. In the Public Staff's May 18, 2020 testimony in the DEC |
| REPS cost recovery proceeding, Docket No. E-7, Sub 1229, witness Jay B. |
| Lucas stated that CPRE costs should not be recovered through REPS |
| proceedings, but that it is difficult to definitively make such a conclusion |
| before the Commission has fully considered CPRE costs in CPRE Program |
| Rider filings or other proceedings. There are no CPRE program |
| implementation costs in this current REPS proceeding, so the issue again |
| requires no immediate decision to complete the review and approval of the |
| currently proposed REPS rider. |
| HAS THE COMPANY COMPLIED WITH ITS SOLAR SET-ASIDE |
| REQUIREMENT FOR 2019? |

Q.

Yes, the Company has met the 2019 Solar Set-Aside requirement of 77,375 solar RECs. Pursuant to the NC-RETS Operating Procedures, the Company has submitted for retirement 77,375 solar RECs. Specifically, the RECs to be used for 2019 compliance have been transferred from the NC-RETS Progress Energy Electric Power Supplier account to the Progress Energy

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| 1 | | Compliance Sub-Account. Upon completion of this regulatory proceeding, |
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| 2 | | the Commission will finalize retirement of the RECs. |
| 3 | Q. | WILL THE COMPANY COMPLY WITH ITS SOLAR SET-ASIDE |
| 4 | | REQUIREMENT IN 2020? |
| 5 | A. | Yes, the Company is well positioned to comply with its Solar Set-Aside |
| 6 | | requirement in 2020. |
| 7 | Q. | PLEASE PROVIDE AN UPDATE ON THE COMPANY'S EFFORTS |
| 8 | | TO COMPLY WITH ITS SOLAR SET-ASIDE REQUIREMENT. |
| 9 | A. | The Company is well positioned to comply with its Solar Set-Aside |
| 10 | | Requirement in 2020 through a diverse and balanced portfolio of solar |
| 11 | | resources. The Company's efforts to comply with the Solar Set-Aside |
| 12 | | Requirement include REC generation and procurement from solar |
| 13 | | renewable energy facilities. |
| 14 | | The Company continues to operate the following Company-owned |
| 15 | | solar facilities, the RECs from which are used for REPS compliance: |
| 16 | | • Camp Lejeune Solar Facility – 13MW, located in Onslow County; |
| 17 | | • Warsaw Solar Facility – 65MW, located in Duplin County; |
| 18 | | • Fayetteville Solar Facility – 23MW, located in Bladen County; and |
| 19 | | • Elm City Solar Facility – 40MW, located in Wilson County. |
| 20 | Q. | HAS THE COMPANY COMPLIED WITH ITS POULTRY WASTE |
| 21 | | SET-ASIDE REQUIREMENT FOR 2019? |
| 22 | A. | Yes, the Company has met the 2019 Poultry Waste requirement of 139,749 |
| 23 | | RECs. Pursuant to NC-RETS Operating Procedures, the Company has |

| 1 | | submitted for retirement 134,105 poultry RECs and 2,822 SB 886 RECs |
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| 2 | | (which count as 5,644 Poultry Waste Set-Aside RECs). Accordingly, the |
| 3 | | Company has submitted the equivalent of 139,749 poultry RECs for |
| 4 | | compliance. Specifically, the RECs to be used for 2019 compliance have |
| 5 | | been transferred from the NC-RETS Progress Energy Electric Power |
| 6 | | Supplier account to the Progress Energy Compliance Sub-Account. Upon |
| 7 | | completion of this regulatory proceeding, the Commission will finalize |
| 8 | | retirement of the RECs. |
| 9 | Q. | WILL THE COMPANY COMPLY WITH ITS POULTRY WASTE |
| 10 | | SET-ASIDE REQUIREMENT IN 2020? |
| 11 | A. | The Company is in a position to comply with its Poultry Waste Set-Aside |
| 12 | | requirement in 2020. Future compliance is dependent on the performance |
| 13 | | of poultry waste-to-energy developers on current contracts, including two |
| 14 | | that are expected to ramp up and increase production over the next few |
| 15 | | years. |
| 16 | Q. | WHAT ACTIONS HAS THE COMPANY TAKEN DURING THE |
| 17 | | TEST PERIOD TO PROCURE OR DEVELOP POULTRY WASTE- |
| 18 | | TO-ENERGY RESOURCES TO SATISFY ITS POULTRY WASTE |
| 19 | | SET-ASIDE REQUIREMENTS? |
| 20 | A. | In the Test Period, the Company (1) continued direct negotiations for |
| 21 | | additional supplies of both in-state and out-of-state resources with multiple |
| 22 | | counterparties; (2) secured contracts for additional poultry waste-to-energy |
| 23 | | resources; (3) worked diligently to understand the technological, permitting, |

reasonably and prudently pursue procurement of these resources.

Q. HAS THE COMPANY COMPLIED WITH ITS SWINE WASTE **SET-ASIDE REQUIREMENT FOR 2019?**

A. Yes. The Company has met the 2019 Swine Waste Set-Aside requirement of 15,475 swine RECs. Pursuant to the NC-RETS Operating Procedures, the Company has submitted for retirement 15,475 swine RECs. Specifically, the RECs to be used for 2019 compliance have been

transferred from the NC-RETS Progress Energy Electric Power Supplier account to the Progress Energy Compliance Sub-Account. Upon completion of this regulatory proceeding, the Commission will finalize retirement of the RECs.

5 Q. WILL THE COMPANY COMPLY WITH ITS SWINE WASTE SET-

ASIDE REQUIREMENT IN 2020?

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The Company's compliance with the 2020 Swine Waste Set-Aside is uncertain, as existing contracts have not been able to reach contracted levels of production, and new contracts have not come online in the timeframe originally planned and have taken longer than expected to ramp up production. One new swine waste-to-energy project is under construction and is scheduled to come online over the next couple of years. The ability of this new facility to come online and for all facilities to produce their full contracted RECs will determine the levels of compliance that DEP is able to meet in the near term. The Company understands that current swine waste-to-energy projects have encountered difficulties in achieving the full REC output of their contracts due to issues including local opposition to siting of the facilities, the inability to secure firm and reliable sources of swine waste feedstock from waste producers in North Carolina, difficulties securing project financing and technological challenges encountered when ramping up production. In addition, the outbreak of the COVID-19 pandemic has adversely impacted swine and poultry farms and processing plants in North Carolina through staff shortages, personal protective

| | equipment supply issues, and delivery challenges. According to the N.C. |
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| | Department of Health and Human Services, through May 7, at least 982 |
| | meat-processing workers had tested positive for the virus, and the Assistant |
| | Agriculture Commissioner stated that the state's processing-plant |
| | production has slowed by roughly 35% to 45%. ⁵ Although industry |
| | representatives and state and federal authorities are working to ensure |
| | continuity of operations, uncertainty remains about the magnitude of the |
| | pandemic's impact in North Carolina and its corresponding effect on |
| | poultry and swine waste-to-energy production. |
| Q. | WHAT ACTIONS HAS THE COMPANY TAKEN DURING THE |
| | TEST PERIOD TO PROCURE OR DEVELOP SWINE WASTE-TO- |
| | ENERGY RESOURCES TO MEET ITS SWINE WASTE SET-ASIDE |

REQUIREMENT?

In the Test Period, the Company (1) continued direct negotiations for additional supplies of both in-state and out-of-state resources; (2) secured contracts for additional swine waste-to-energy resources; (3) worked diligently to understand the technological, permitting, and operational risks associated with various methods of producing qualifying swine waste RECs to aid developers in overcoming those risks; when those risks could not be overcome, the Company worked with developers via contract amendments to adjust for outcomes that the developers believe are achievable based on

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⁵ Grubb, Tammy, *States are Killing Pigs, Chickens that COVID-19 Keeps from the Market. Could NC be Next?*, News and Observer, May 8, 2020, available at https://www.newsobserver.com/news/business/article242562301.html

| | developers of renewable energy resources. |
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| | agreements and maintains an open solicitation for proposals from |
| A. | Yes, the Company continues to execute additional REC purchase |
| | ADDITIONAL REC PURCHASE AGREEMENTS? |
| Q. | IS DUKE ENERGY PROGRESS CONTINUING TO EXECUTE |
| | and prudently pursue procurement of these resources. |
| | requirements for the Swine Waste Set-Aside and will continue to reasonably |
| | The Company remains committed to satisfying its statutory |
| | Sub 113A. |
| | Semiannual Progress Report, filed on June 1, 2020 in Docket No. E-100, |
| | Swine Waste Set-Aside requirement can be found in the Company's Joint |
| | confidential. Additional information on the Company's compliance with the |
| | Company's obligations to keep certain sensitive commercial information |
| | the NCPC to discuss project viability, as appropriate, with respect to the |
| | a project evaluation collaboration effort that will allow the Company and |
| | the market; and (7) engaged the North Carolina Pork Council ("NCPC") in |
| | trader to search the broker market for out-of-state swine RECs available in |
| | biogas from North Carolina facilities; (6) utilized the Company's REC |
| | waste to their fuel mix; (5) continued pursuit of swine-derived directed |
| | biomass and set-asides contracts by working with developers to add swine |
| | new experience; (4) explored and is engaging in modification of current |

PERIOD?

2 **Costs of REPS Compliance** WHAT ARE THE COMPANY'S COSTS ASSOCIATED WITH REPS 3 Q. 4 COMPLIANCE DURING THIS TEST PERIOD AND THE 5 **UPCOMING BILLING PERIOD?** 6 Duke Energy Progress' costs associated with REPS compliance are A. 7 reflected in Jennings Confidential Exhibit No. 2 and are categorized by 8 actual costs incurred during the Test Period and projected costs for the 9 Billing Period. 10 Q. IN ADDITION TO RENEWABLE ENERGY AND REC COSTS, 11 WHAT OTHER COSTS OF REPS COMPLIANCE DOES THE 12 COMPANY SEEK TO RECOVER IN THIS PROCEEDING? 13 Jennings Confidential Exhibit Nos. 2 and 3 identify "Other Incremental A. 14 Cost," "Solar Rebate Program Cost" and "Research Cost" that the Company 15 has incurred, and estimates it will incur, in association with REPS 16 compliance. 17 Other Incremental Costs and Solar Rebate Program Costs PLEASE EXPLAIN THE OTHER INCREMENTAL COSTS 18 Q. INCLUDED FOR RECOVERY IN THIS PROCEEDING. 19 20 Other Incremental Costs include labor costs associated with REPS A. 21 compliance activities and non-labor costs associated with administration of 22 REPS compliance. Among the non-labor costs associated with REPS 23 compliance are the Company's subscription to NC-RETS, and accounting,

1

A.

No. it did not.

| and tracking tools related to RECs, reduced by agreed-upon liquidated |
|---|
| damages paid by sellers for failure to meet contractual milestones, and |
| amounts paid for administrative contractual amendments requested by |
| sellers. |

A.

5 Q. PLEASE PROVIDE INFORMATION ON THE NC HB 589 SOLAR 6 REBATE PROGRAM ("SOLAR REBATE PROGRAM").

As required by G.S. § 62-155(f), DEP developed a Solar Rebate Program offering reasonable incentives to residential and nonresidential customers for the installation of small customer owned or leased solar energy facilities participating in the Company's net metering tariff. The incentive is limited to 10 kilowatts alternating current ("kW AC") for residential solar installations and 100 kW-AC for nonresidential solar installations. HB 589 limited the program incentive to 10,000 kW of installed capacity annually starting January 1, 2018 and continuing until December 31, 2022.

Consistent with the Commission's April 3, 2018 order and subsequent orders in Docket Nos. E-7, Sub 1166 and E-2, Sub 1167, the Solar Rebate Program launched on July 9, 2018. In every year since its launch, the Solar Rebate Program's annual participation limits for the residential and non-residential class have been met, although the two thousand five hundred kW of capacity limit for nonprofit organizations has not been met. On January 3, 2020, DEP filed a notice that the 2020 annual participation limits for residential and non-residential customers under the

| Solar Rebate Program, exclusive of the non-profit participation set-asi | de, |
|---|-----|
| had been reached. | |

A.

Beginning in 2019, for a residential customer who obtains a rebate reservation prior to installation, the installation must be completed no later than December 31 in the year in which the reservation was obtained. For a nonresidential customer, with a project size under 20 kW-AC, who obtains a rebate reservation prior to installation, the installation must be completed no later than 365 days from the date the rebate reservation was obtained. For a nonresidential customer, with a project size over 20kW-AC, who obtains a rebate reservation prior to installation, the installation must be completed no later than 365 days from the date of an executed interconnection agreement. Therefore, rebate payments for the 2018 program year continued into 2019, and the same principle will apply for subsequent program years, with payments continuing into 2023 after the final program year of 2022.

Q. ARE COSTS RELATED TO THE NC HB 589 SOLAR REBATE PROGRAM INCLUDED FOR RECOVERY IN THIS FILING?

Yes. Pursuant to G.S. § 62-155(f), each public utility required to offer a solar rebate program "shall be authorized to recover all reasonable and prudent costs of incentives provided to customers and program administrative costs by amortizing the total program incentives distributed during a calendar year and administrative costs over a 20-year period, including a return component adjusted for income taxes at the utility's

| overall weighted average cost of capital established in its most recent |
|---|
| general rate case, which shall be included in the costs recoverable by the |
| public utility pursuant to G.S. § 62-133.8(h)." G.S. § 62-133.8(h) provides |
| for an electric power supplier's cost recovery and customer charges under |
| the REPS statute; NC HB 589 amended it by adding a provision to allow |
| for the recovery of incremental costs incurred to "provide incentives to |
| customers, including program costs, incurred pursuant to G.S. § 62-155(f)." |
| Therefore, DEP has included for recovery in this filing costs incurred during |
| the EMF period, and projected to be incurred in the Billing Period related |
| to the implementation of the NC HB 589 Solar Rebate Program. As detailed |
| on Jennings Confidential Exhibit No. 3, these costs include the annual |
| amortization of incentives paid to customers and program administration |
| costs, which include labor, information technology and marketing costs. |
| Projected incentive costs for the Billing Period are within the capacity limits |
| established by G.S. § 62-155(f). |
| PLEASE PROVIDE DETAIL ON THE INTERNAL LABOR COSTS |
| THAT ARE ASSOCIATED WITH REPS COMPLIANCE AND |
| SOLAR REBATE PROGRAM ACTIVITIES THAT ARE |
| INCLUDED IN DEP'S CURRENT APPLICATION FOR REPS COST |
| RECOVERY. |
| DEP charges only the incremental cost of REPS compliance and the Solar |
| Rebate Program to the REPS cost recovery rider. Consistent with that policy |
| and DEP's practices in previous applications for cost recovery for REPS |

Q.

A.

| 1 | | compliance, internal employees who work to comply with G.S. § 62-133.8 |
|----|----|--|
| 2 | | and G.S. § 62-155(f) charge only that portion of their labor to REPS. The |
| 3 | | departments/functions that charged labor to REPS during the Test Period |
| 4 | | are detailed in Jennings Confidential Exhibit No. 3. |
| 5 | Q. | HOW DO EMPLOYEES CHARGE THEIR REPS-RELATED AND |
| 6 | | SOLAR REBATE PROGRAM-RELATED LABOR COSTS TO |
| 7 | | REPS? |
| 8 | A. | Employees positively report their time, which means that each employee is |
| 9 | | required to submit a timesheet every two weeks in DEP's time reporting |
| 10 | | system. The hours reported for the period are split according to the |
| 11 | | accounting entered in the time reporting system for that specific employee. |
| 12 | | The division of hours is updated for the reporting period as necessary, as |
| 13 | | the nature of the employee's work changes. |
| 14 | | To educate employees to account for their time properly, DEP |
| 15 | | annually provides instructions for charging time to REPS to affected |
| 16 | | employees and the management of the employee groups performing REPS |
| 17 | | work. Additionally, every year prior to filing for approval of the DEP REPS |
| 18 | | Compliance Report and Cost-Recovery Rider, the labor hours charged are |
| 19 | | carefully reviewed and confirmed. |
| 20 | | Research Costs |
| 21 | | With respect to Research activities during the Test Period and projected for |
| 22 | | the Billing Period, the Company has incurred or projects to incur costs |

| 1 | | associated with the support of various pilot projects and studies related to |
|----|----|--|
| 2 | | distributed energy technology and the Company's REPS compliance. |
| 3 | Q. | THE COMMISSION'S ORDER APPROVING REPS AND REPS EMF |
| 4 | | RIDERS AND 2012 REPS COMPLIANCE REQUIRES DUKE |
| 5 | | ENERGY PROGRESS TO FILE WITH ITS 2019 REPS RIDER |
| 6 | | APPLICATION STUDY RESULTS FOR ANY STUDIES THE |
| 7 | | COSTS OF WHICH IT HAS RECOVERED VIA THE REPS RIDER. |
| 8 | | IS THE COMPANY SUPPLYING SUCH STUDIES IN THIS |
| 9 | | FILING? |
| 10 | A. | Yes. The Company's Research efforts are an integral part of its REPS |
| 11 | | compliance efforts. The following summary outlines efforts undertaken by |
| 12 | | the Company in the test period and specifies the availability of applicable |
| 13 | | study results. |
| 14 | | • Center for Advanced Power Engineering Research ("CAPER") – |
| 15 | | Combined T&D System Model Study – In the first quarter of 2020, |
| 16 | | the Company started a project with North Carolina State University |
| 17 | | ("NCSU") and the University of North Carolina Charlotte |
| 18 | | ("UNCC") through CAPER, to develop a combined system model |
| 19 | | and simulation process for integrated planning and operations across |
| 20 | | transmission and distribution systems. The description of the project |
| 21 | | can be found in Jennings Confidential Exhibit No. 4. |
| 22 | | CAPER Photovoltaic Synchronous Generator ("PVSG") – Started |
| 23 | | in 2017, the Company worked with NCSU and Clemson University, |

through CAPER, on a project to develop and demonstrate a 40 kW
three-phase PVSG system. This project concluded in 2019. The
results of this project can be found in Jennings Exhibit No. 5.

Coalition for Renewable Natural Gas – The Company renewed its
membership to the Coalition for Renewable Natural Gas in 2019, to

membership to the Coalition for Renewable Natural Gas in 2019, to add a valuable resource of knowledge and public policy advocation in this growing sector of potential animal waste supply. The Coalition for Renewable Natural Gas provides its members with exclusive whitepapers, support on model pipeline gas specifications and access to other members for discussions on current and future projects.

- Eos Energy Storage Technology Development The Company and
 Eos Services started a collaborative technology development
 program to validate, demonstrate, and quantify the benefits of an
 Eos Aurora Battery System that is DC coupled to a PV facility at the
 McAlpine Creek Substation 50 kW Solar Facility. The installation
 of the Eos Aurora Battery System was completed in 2019, and
 operational tests will continue in 2020. The progress report of this
 project can be found in Jennings Confidential Exhibit No. 6.
- Electric Power Research Institute ("EPRI") In the EMF period the
 Company subscribed to the following EPRI programs, the costs of
 which were recovered via the REPS rider: Program 174 –
 Integration of Distributed Energy Resources, and Program 94 –

Energy Storage and Distributed Generation. The Company participated in a supplemental project under Program 174 – "DER Interconnection Standards & Practices." The Company also extended the support of the "EPRI - PV monitoring project" which originally started in 2017. EPRI designates such study results as proprietary or as trade secrets and licenses such results to EPRI members, including Duke Energy Progress. As such, the Company may not disclose the information publicly. Non-members may access these studies for a fee. Information regarding access to this information can be found at http://www.epri.com/Pages/Default.aspx.

Emerging Technology Office ("ETO") – Mitigation of Transformer

High Inrush Current – In 2019, the Company continued working

with multiple vendors on a project to test and evaluate different

options to mitigate the transformer high inrush current.

Transformers are very expensive components of the electric power

system. The transformers installed in the utility-scale solar

generating facilities are experiencing high inrush current during

energization. Transformer inrush currents are short duration currents

that flow into the transformer primary every time the transformer is

energized. These currents are typically high magnitude (up to 20

times the nominal current), harmonic currents with some DC

component. These high inrush currents can cause numerous

| 1 | problems on the electrical system, such as breaker tripping, voltage |
|----|--|
| 2 | sags, voltage flicker, mechanical stress on the transformer windings |
| 3 | oscillatory torque in motors and system resonance. The results of |
| 4 | this project can be found in Jennings Confidential Exhibit No. 7. |
| 5 | NCSU – Adopting DVAR to Mitigate PV Impacts on a Distribution |
| 6 | System - In 2019, the Company started a project with NC State to |
| 7 | assess the effectiveness of the American Superconductor Corp |
| 8 | Dynamic Volt-Amp Reactive Compensation Solution ("mini- |
| 9 | DVAR") in mitigating various power quality issues on distribution |
| 10 | circuits due to increasing penetration of PV. The scope of the project |
| 11 | also includes the optimal placement of mini-DVAR and its optimal |
| 12 | volt-var control. The project is expected to continue in 2020. The |
| 13 | progress report of this project can be found in Jennings Confidential |
| 14 | Exhibit No. 8. |
| 15 | • NCSU – DER Cost of Service Study – In the first quarter of 2020 |
| 16 | the Company started a project with North Carolina State University |
| 17 | and Advanced Energy through a collaborative effort to investigate |
| 18 | the impact of DG on a utility distribution system from the cost-of- |
| 19 | service perspective and to develop a methodology to quantify those |
| 20 | costs. The project is expected to complete by the end of 2020. |
| 21 | • NCSU - ETO - Feeder Anti-islanding Detection Using HIL |
| 22 | Modeling and Simulation – In 2019, the Company started a project |

with NC State to evaluate the challenge from increasing penetration

of PV and installation of mini-DVAR to the islanding protection scheme. The scope of this project is to use a Hardware-in-the-loop ("HIL") setup to simulate different fault conditions with Schweitzer Engineering Laboratories ("SEL") relays at PV sites and different operating conditions. The progress report of this project can be found in Jennings Confidential Exhibit No. 9.

NCSU – ETO – Grid-forming Battery Energy Storage System Characterization and Testing – Starting from late 2018, the Company worked with NC State on a project to install and commission a Battery Energy Storage System ("BESS") and to study the loading capabilities of the BESS operating in grid-forming mode. A BESS may need to power up a microgrid after an outage, thus supplying all of the magnetizing currents to line-start machines as well as isolation transformers in the microgrid. There is a need to understand the capabilities of the state-of-the art BESS inverters to support these loads. Though simulating such behavior is feasible, experimental validation is required to guarantee that the system will operate as expected, and the BESS inverter protection will not trip. The project continued in 2019, and the progress report can be found in Jennings Confidential Exhibit No. 10.

NCSU – Interactions of PV Installations with Distribution Systems
 Starting from late 2018, the Company worked with NC State on a project to construct a testbed and analysis framework for

investigating how large PV penetration on a feeder affects the operation of the distribution system. The project continued in 2019, and the progress report can be found in Jennings Confidential Exhibit No. 11.

- Management ("FREEDM") Systems Center Duke Energy supports NC State's FREEDM Center through annual membership dues. The FREEDM partnership provides Duke Energy with the ability to influence and focus research on materials, technology, and products that will enable the utility industry to transform the electric grid into a two-way power flow system supporting distributed generation.
 - NREL Carbon-Free Resource Integration Study In 2019, the Company contracted with NREL, an industry-respected, leading research institution, to conduct a study of the Carolinas' system to help us understand the operational impacts, benefits and limitations of solar. The study will also inform other fleet transformation analyses, including how different clean energy technologies can contribute to a carbon-free future. The study will be conducted in two phases. Phase 1 was completed in 2019, and Phase 2 has started and will continue in 2020. The results of the Phase 1 study of this project can be found in Jennings Exhibit Nos. 12-14.

| 1 | • | Research Triangle Institute – Biogas Utilization in North Carolina – |
|----|---|--|
| 2 | | In 2019, the Company continued support of the Research Triangle |
| 3 | | Institute project for the NC Energy Policy Council to determine the |
| 4 | | potential bioenergy/biogas resources available in North Carolina, |
| 5 | | and to identify the most beneficial and optimum utilization of |
| 6 | | resources to maximize economic, environmental and societal |
| 7 | | advantages. An overview of the project can be found in Jennings |
| 8 | | Confidential Exhibit No. 15. |
| 9 | • | Rocky Mountain Institute ("RMI") - The Company participates in |
| 10 | | eLab, a forum sponsored by RMI, composed of several North |
| | | |

- eLab, a forum sponsored by RMI, composed of several North Carolina and nationally based entities, and organized to overcome barriers to economic deployment of distributed energy resources in the U.S. electric sector. Specifically, the Company seeks to gauge customer desires related to distributed resources and provide ideas of potential long-term solutions for distributed energy resources and microgrids. Please visit RMI's website at http://www.rmi.org/elab for more information on eLab.
- Swine Extrusion/Poultry Mortality The Animal and Poultry Waste
 Management Center ("APWMC") at NC State University In 2019,
 the Company continued support of the various projects being
 undertaken by the APWMC. This work is centered around drying
 swine lagoon solids, bagged lagoon sludge and lagoon sludge mixed
 with agricultural wastes at a farm-based level to create a higher

MMBtu fuel that can be safely and easily transported to a central plant for combustion. An update on the project can be found in Jennings Confidential Exhibit No. 16. Note that there are no costs related to this project included in the test period, but the Company continues to support the project and has included projected costs in the billing period.

UNCC – Marshall Solar Site Algorithm – In 2019, the Company continued to work with the UNCC on a project to utilize the operational data to design and implement an autonomous active and reactive power dispatch algorithm with PV farms and/or Battery Energy Storage system on any feeder considering Distribution Management System (DMS) coordination. The work in 2019 was on utilizing energy storage as an Uninterruptible Power Supply ("UPS") solution for customers with sensitive loads and providing grid ancillary services. The Phase V results of this project can be found in Jennings Confidential Exhibit No. 17. The Company is continuing to support the next phase of this project in 2020.

Q. ARE YOU SATISFIED THAT THE ACTUAL COSTS INCURRED

IN THE TEST PERIOD HAVE BEEN, AND THAT THE

PROJECTED COSTS OF THE BILLING PERIOD WILL BE,

PRUDENTLY INCURRED?

A. Yes. Duke Energy Progress believes it has incurred and projects to incur these costs associated with REPS compliance in a prudent manner. The

Company continues to exercise thorough and rigorous technical and economic analysis to evaluate all options for compliance with its REPS requirements. Duke Energy Progress has developed strong foundational market knowledge related to renewable resources. The Company continues to enhance and develop expertise in this field through the Company's various solicitations for renewable energy and the operation of its unsolicited bid process, its participation in industry research, and daily interaction with developers of renewable energy facilities. As a result of these efforts, the Company has been able to identify, procure, and develop a diverse portfolio of renewable resources to meet its REPS requirements in a prudent, reasonable and cost-effective manner.

12 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

13 A. Yes.

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1251

| In the Matter of | | |
|--|---|----------------------------|
| |) | DUKE ENERGY PROGRESS, |
| Application of Duke Energy Progress, LLC for |) | LLC 2019 RENEWABLE |
| Approval of Renewable Energy and Energy |) | ENERGY & ENERGY |
| Efficiency Portfolio Standard Compliance Report |) | EFFICIENCY PORTFOLIO |
| and Rider Pursuant to N.C. Gen. Stat. § 62-133.8 |) | STANDARD COMPLIANCE |
| and Commission Rule R8-67(c) |) | REPORT |

DUKE ENERGY PROGRESS, LLC RENEWABLE ENERGY AND ENERGY EFFICIENCY PORTFOLIO STANDARD ("REPS") COMPLIANCE REPORT

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| (B) | REPS COMPLIANCE REPORT | 3 |
| (C) | METHODOLOGY FOR DETERMINING NUMBER OF CUSTOMERS AND CUSTOMER CAP | 7 |

(A) INTRODUCTION

Duke Energy Progress, LLC ("Duke Energy Progress" or the "Company") submits its Renewable Energy and Energy Efficiency Portfolio Standard ("REPS") Compliance Report ("Compliance Report") in accordance with N.C. Gen. Stat. § 62-133.8 and Commission Rule R8-67(c). This Compliance Report provides the required information for the calendar year 2019.¹

(B) REPS COMPLIANCE REPORT

I. RENEWABLE ENERGY CERTIFICATES:

The table below reflects the renewable energy certificates ("RECs") used to comply with N.C. Gen. Stat. § 62-133.8(d) for the year 2019.

[BEGIN CONFIDENTIAL]

| Source | Number of Certificates | Incremental Costs |
|----------|---------------------------|----------------------|
| | 1 | |
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¹ Pursuant to NCUC Rule R8-67(c)(1), this Compliance Report reflects Duke Energy Progress' efforts to meet the REPS requirements for the previous calendar year.

| Source | Number of Certificates | Incremental Costs |
|--------|---------------------------|----------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Totals may not foot due to rounding

[END CONFIDENTIAL]

II. ACTUAL 2019 TOTAL NORTH CAROLINA RETAIL SALES AND YEAR-END NUMBER OF ACCOUNTS, BY CUSTOMER CLASS:

| | 2019 |
|---------------------|------------|
| NC Retail MWh Sales | 37,938,229 |

| Account | 2019 year-end number of retail |
|-------------|--------------------------------|
| Туре | REPS accounts |
| Residential | 1,242,912 |
| General | 200,154 |
| Industrial | 1,801 |

III. AVOIDED COST RATES

The avoided cost rates below, applicable to energy received pursuant to power purchase agreements, represent the annualized avoided cost rates in Schedule CSP/PP (NC), Distribution Interconnection, approved in the 2016 avoided cost proceeding Docket E-100, Sub 148, the 2014 avoided cost proceeding Docket No. E-100, Sub 140; the 2012 avoided cost proceeding Docket No. E-100, Sub 136; the 2010 avoided cost proceeding Docket No. E-100, Sub 127; the 2008 avoided cost proceeding Docket No. E-100, Sub 117; and the 2006 avoided cost proceeding Docket No. E-100, Sub 106.

| ANNUALIZED CAPACITY AND ENERGY RATES | | | | | | |
|--------------------------------------|---------------------|---------------------|---------------------|---------------------|------------------|------------------|
| (CENTS PER KWH) | | | | | | |
| Docket No.: | E-100 Sub 148 | E-100 Sub 140 | E-100 Sub 136 | E-100 Sub 127 | E-100 Sub 117 | E-100 Sub 100 |
| Variable Rate | 3.35 | 4.29 | 4.76 | 5.79 | 5.69 | 4.54 |
| 5 Year | n/a | 4.42 | 4.97 | 6.18 | 5.82 | 4.67 |
| 10 Year | 3.79 | 5.08 | 5.47 | 6.82 | 6.05 | 4.85 |
| 15 Year | n/a | 5.53 | 5.88 | 7.29 | 6.11 | 4.98 |

IV. ACTUAL TOTAL AND INCREMENTAL COSTS INCURRED IN 2019

REPS compliance costs incurred for calendar year 2019 comprise the cost of renewable energy purchases, the cost of purchases of various types of RECs, and other reasonable and prudent costs incurred to meet the requirements of the REPS statute. In addition, annual Solar Rebate Program costs incurred pursuant to N.C. Gen. Stat. § 62-155 are recovered in the REPS rider as directed in N.C. Gen. Stat. § 62-133.8(h)(1)d.

| Actual Costs | Energy and REC | | |
|--|----------------------|-----------------|--------------------|
| Incurred | Costs | Other | Total Costs |
| REPS compliance - | | | |
| avoided cost | \$190,780,066 | \$ 0 | \$190,780,066 |
| REPS compliance - | | | |
| incremental cost | \$ 35,429,563 | \$2,619,674 | \$38,049,237 (a) |
| REPS compliance - | | | |
| total cost | \$226,209,629 | \$ 2,619,674 | \$228,829,303 |
| Solar Rebate | | | |
| Program cost | \$ 0 | \$ 876,158 | \$ 876,158 (b) |
| Incremental REPS co Solar Rebate Program recov | costs for REPS rider | (a) + (b) above | \$38,925,395 |

V. ACTUAL INCREMENTAL COSTS COMPARISON TO THE ANNUAL COST CAP

| Account Type | Total 2018 year-end number of retail REPS accounts | Annual per- account cost cap | Total annual cost cap |
|---|--|------------------------------------|-----------------------|
| Residential | 1,210,740 | \$27 | \$32,689,980 |
| General | 195,967 | \$150 | \$29,395,050 |
| Industrial | 1,810 | \$1,000 | \$1,810,000 |
| Total and | \$63,895,030 | | |
| Incremental REPS compliance costs incurred – 2019 | | | \$38,049,237 |

VI. STATUS OF COMPLIANCE WITH REPS REQUIREMENTS

Pursuant to N.C. Gen. Stat. § 62-133.8(b) for Duke Energy Progress Retail customers, the REPS requirement for calendar year 2019 is set at 10% of 2018 North Carolina retail sales. In order to comply with the REPS obligation for Duke Energy Progress Retail customers, the Company submitted 3,863,083 RECs, which included 2,822 Senate Bill 886 ("SB886") RECs, each of which counts for two poultry waste RECs and

one general REC. Accordingly, the Company submitted the equivalent of 3,868,727 RECs for compliance, representing 10% of 2018 retail megawatthour sales of 38,687,268.

Pursuant to N.C. Gen. Stat. § 62-133.8(d), the REPS requirement for calendar year 2019 is at least 0.20% of the total electric power in kilowatt hours sold to retail electric customers in the prior calendar year in the State, or an equivalent amount of energy, shall be supplied by a combination of new solar electric facilities and new metered solar thermal energy facilities. As a result, 77,375 solar RECs were used to meet the Solar Set-Aside Requirement. An additional 2,159,374 solar RECs were submitted for retirement toward compliance with the general requirement (the total REPS requirement net of solar, poultry and swine set-aside obligations).

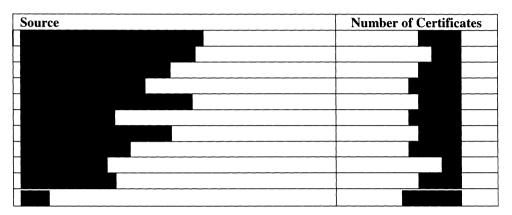
In its December 16, 2019 Order Modifying the Swine and Poultry Waste Set-Aside Requirements and Providing Other Relief and its February 13, 2020 Errata Order ("2019 Delay Orders") issued in Docket No. E-100, Sub 113, the Commission modified the swine waste set-aside requirement for 2019 to 0.04% of total NC retail sales, and specified that the requirement applies to electric public utilities only, not to electric membership cooperatives or municipalities (which were excused from the swine waste set-aside requirement for 2019). To comply with the swine waste set-aside requirement applicable to DEP's NC retail sales, the Company submitted for retirement 15,475 swine RECs.

The 2019 Delay Orders also reduced the 2019 poultry waste set-aside requirement to 500,000 MWh state-wide, and set the 2020 and 2021 levels at 700,000 MWh and 900,000 MWh, respectively. In its December 16, 2019 Order Establishing 2019, 2020, and 2021 Poultry Waste Set-Aside Requirement Allocation issued in Docket No. E-100, Sub 113, the Commission directed the annual aggregate poultry waste set-aside requirement to be allocated among electric power suppliers and utility compliance aggregators according to the load ratio share calculations shown on Appendix A to the order. These percentages were applied to the 2019 state-wide requirement to determine the poultry waste set-aside requirements applicable to DEP NC retail for reporting year 2019. The Company submitted for retirement 134,105 poultry waste RECs along with 2,822 SB886 RECs, which count as 5,644 poultry waste set-aside RECs. Accordingly, the Company submitted the equivalent of 139,749 poultry RECs for compliance, and met its 2019 poultry waste set-aside requirement.

VII. IDENTIFICATION OF RECs CARRIED FORWARD

The table below reflects RECs generated through year-end 2019, excluding those RECs that have already been retired to meet compliance, that the Company has banked for use in future compliance years.

[BEGIN CONFIDENTIAL]





[END CONFIDENTIAL]

VIII. DATES AND AMOUNTS OF ALL PAYMENTS MADE FOR RENEWABLE ENERGY CERTIFICATES

Confidential Appendix 1 illustrates the dates and amounts of all payments made for renewable energy certificates during calendar year 2019.

(C) <u>METHODOLOGY FOR DETERMINING NUMBER OF CUSTOMERS</u> <u>AND CUSTOMER CAP</u>

Consistent with the Commission's order issued November 12, 2009 in Docket No. E-2, Sub 948, for purposes of REPS billing, the Company defines as a single customer all accounts (metered and unmetered) serving the same customer of the same revenue classification located on the same or contiguous properties. If a customer has accounts which serve in an auxiliary role to a main account on the

same premises, no REPS charge applies to the auxiliary accounts, regardless of their revenue classification.

Respectfully submitted this the 9th day of June, 2020.

Robert W. Koylan

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Robert W. Kaylor Law Office of Robert W. Kaylor, P.A. 353 E. Six Forks Road, Suite 260 Raleigh, North Carolina 27609-7882 919.828.5250 bkaylor@rwkaylorlaw.com

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------|
| [BEGIN CONFIDENTIAL] | | |
| Apr-2019 | Ċ | 2,349.76 |
| Aug-2019 | , , | 4,772.95 |
| Dec-2019 | ξ . | 2,202.90 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,321.74 |
| Jan-2019 | Š | 2,202.90 |
| Jul-2019 | č | 4,993.24 |
| Jun-2019 | č | 4,846.38 |
| Mar-2019 | Š | 3,084.06 |
| May-2019 | ζ, | 4,185.51 |
| Nov-2019 | Š | 3,377.78 |
| Oct-2019 | Š | 4,185.51 |
| Sep-2019 | \$ | 4,258.94 |
| 3cp 2013 | ¥ | 4,230.54 |
| Apr-2019 | \$ | 3,686.04 |
| Dec-2019 | \$ | 4,709.94 |
| Feb-2019 | \$ | 2,662.14 |
| Jan-2019 | ζ, | 3,481.26 |
| Jul-2019 | Š | 6,962.52 |
| Jun-2019 | Š | 5,836.23 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,583.65 |
| May-2019 | Š | 5,631.45 |
| Nov-2019 | Š | 3,378.87 |
| Oct-2019 | Š | 5,221.89 |
| Sep-2019 | ć | 12,491.58 |
| 3cp 2013 | ¥ | 12,451.50 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 206.86 |
| Aug-2019 | \$ | 413.72 |
| Dec-2019 | \$ | 310.29 |
| Feb-2019 | \$ | 310.29 |
| Jan-2019 | \$ | 310.29 |
| Jul-2019 | \$ | 310.29 |
| Jun-2019 | \$ | 413.72 |
| Mar-2019 | \$ | 310.29 |
| May-2019 | \$ | 413.72 |
| Nov-2019 | \$ | 310.29 |
| Oct-2019 | \$ | 413.72 |
| Sep-2019 | \$ | 413.72 |
| Apr. 2010 | | 73.43 |
| Apr-2019 | \$ | |
| Aug-2019 | \$ | 73.43 |
| Dec-2019 | \$ | 146.86 |
| Feb-2019 | \$ | 73.43 |
| Jan-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 73.43 |
| Jul-2019 | > * | 146.86 |
| Jun-2019 | > * | 73.43 73.43 |
| Mar-2019 | \$ * | |
| May-2019 | > * | 146.86 |
| Nov-2019 | > * | 73.43 |
| Oct-2019 | \$ | 73.43 |
| Sep-2019 | č | 146.86 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| Apr-2019 | \$ | 1,010.00 |
| Aug-2019 | \$ | 1,870.00 |
| Dec-2019 | \$ | 1,435.00 |
| Feb-2019 | \$ | 1,165.00 |
| Jan-2019 | \$ | 1,200.00 |
| Jul-2019 | \$ | 2,250.00 |
| Jun-2019 | \$ | 1,990.00 |
| Mar-2019 | \$ | 1,520.00 |
| May-2019 | \$ | 1,685.00 |
| Nov-2019 | \$ | 1,440.00 |
| Oct-2019 | \$ | 1,820.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,110.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,300.00 |
| Aug-2019 | \$ | 5,090.00 |
| Dec-2019 | \$ | 2,930.00 |
| Feb-2019 | \$ | 3,120.00 |
| Jan-2019 | \$ | 2,640.00 |
| Jul-2019 | \$ | 4,795.00 |
| Jun-2019 | \$ | 5,360.00 |
| Mar-2019 | \$ | 2,630.00 |
| May-2019 | \$ | 4,655.00 |
| Nov-2019 | \$ | 3,560.00 |
| Oct-2019 | \$ | 3,880.00 |
| Sep-2019 | \$ | 4,300.00 |
| Apr-2019 | č | 1,577.25 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,881.00 |
| Dec-2019 | ÷ | 1,149.75 |
| Feb-2019 | ۶ د | 1,176.75 |
| Jan-2019 | ę e | 922.50 |
| Jul-2019 | ې د | 1,689.75 |
| Jun-2019 | ę e | 1,896.75 |
| Mar-2019 | ې د | 956.25 |
| | ۶ د | 992.25 |
| May-2019 Nov-2019 | ې د | 1,325.25 |
| Oct-2019 | ÷ | 1,638.00 |
| Sep-2019 | \$ | 1,635.75 |
| 3ep-2019 | Ą | 1,033.73 |
| Apr-2019 | \$ \$ | 380.25 |
| Aug-2019 | Š | 679.50 |
| Dec-2019 | Ś | 537.75 |
| Feb-2019 | \$ | 427.50 |
| Jan-2019 | Š | 339.75 |
| Jul-2019 | ξ. | 825.75 |
| Jun-2019 | Š | 702.00 |
| Mar-2019 | Š | 526.50 |
| May-2019 | č | 659.25 |
| Nov-2019 | č | 618.75 |
| Oct-2019 | č | 650.25 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 787.50 |
| | • | |
| Apr-2019 | \$ | 3,516.62 |

| Aug 2019 \$ 7,860.68 Dec-2019 \$ 5,481.79 Feb-2019 \$ 3,007.6 Jan-2019 \$ 3,102.90 Jul-2019 \$ 6,212.95 Mar-2019 \$ 6,722.95 Mar-2019 \$ 6,722.95 Mar-2019 \$ 6,022.95 May-2019 \$ 6,022.95 Nov-2019 \$ 5,378.36 Cot-2019 \$ 6,722.95 Sep-2019 \$ 1,101.45 Aug-2019 \$ 1,276.33 Dec-2019 \$ 1,276.33 Dec-2019 \$ 1,395.77 Feb-2019 \$ 1,395.77 Jul-2019 \$ 1,276.33 Dec-2019 \$ 1,395.71 Jul-2019 \$ 2,496.62 Jun-2019 \$ 1,202.90 Mar-2019 \$ 1,202.90 Mar-2019 \$ 1,202.40 Mar-2019 \$ 1,202.90 Mar-2019 \$ 1,202.90 Apr-2019 \$ 1,202.90 Apr-2019 \$ 1,202.90 Apr-2019 \$ 1,202.90 Apr-2019 \$ 1,202.90 | Counterparty and Payment Dates | | REC Cost |
|--|--------------------------------|----------|-----------|
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Aug-2019 | \$ | 7,860.68 |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Dec-2019 | \$ | 5,481.79 |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Feb-2019 | \$ | 3,309.76 |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Jan-2019 | \$ | |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Jul-2019 | \$ | |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Jun-2019 | \$ | |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Mar-2019 | \$ | |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | May-2019 | \$ | |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Nov-2019 | \$ | |
| Apr-2019 \$ 1,101.45 Aug-2019 \$ 2,276.33 Dec-2019 \$ 1,395.17 Feb-2019 \$ 954.59 Jan-2019 \$ 1,101.45 Jul-2019 \$ 1,101.45 Jul-2019 \$ 2,496.62 Jun-2019 \$ 2,202.90 Mar-2019 \$ 1,321.74 May-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 1,762.32 Oct-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 6,975.85 Aug-2019 \$ 3,010.63 Feb-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 1,982.61 Jan-2019 \$ 5,874.40 Jun-2019 \$ 1,982.61 Jun-2019 \$ 5,874.40 Jun-2019 | Oct-2019 | \$ | 6,722.95 |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td>Sep-2019</td> <td>\$</td> <td></td> | Sep-2019 | \$ | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td>Apr-2019</td> <td>ς</td> <td>1 101 45</td> | Apr-2019 | ς | 1 101 45 |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>Š</td> <td></td> | | Š | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>ζ,</td> <td></td> | | ζ, | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>ζ΄</td> <td></td> | | ζ΄ | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>ζ,</td> <td></td> | | ζ, | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>Š</td> <td></td> | | Š | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>ζ,</td> <td></td> | | ζ, | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>Š</td> <td></td> | | Š | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>Ś</td> <td></td> | | Ś | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td>·</td> <td>\$</td> <td></td> | · | \$ | |
| Sep-2019 \$ 2,202.90 Apr-2019 \$ 6,975.85 Aug-2019 \$ 5,874.40 Dec-2019 \$ 3,010.63 Feb-2019 \$ 1,982.61 Jan-2019 \$ 2,570.05 Jul-2019 \$ 5,874.40 Jun-2019 \$ 10,280.20 Mar-2019 \$ 2,863.77 Nov-2019 \$ 3,377.78 Oct-2019 \$ 10,206.77 Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,234.75 Feb-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 Cer-2019 \$ 3,384.00 Aug-2019 \$ 3,384.00 <td></td> <td>Ś</td> <td></td> | | Ś | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | \$ | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | A 2010 | | 6.075.05 |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | \$ \$ | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | \$ \$ | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | \$ \$ | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | \$ ¢ | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | \$ ¢ | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | Ş | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | ş | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | ş | |
| Apr-2019 \$ 2,230.41 Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 3,052.14 Mar-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 3,908.00 | | ې د | |
| Aug-2019 \$ 3,639.09 Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 1,760.85 May-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Oct-2019 | | 10,200.77 |
| Dec-2019 \$ 2,934.75 Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 1,760.85 May-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Apr-2019 | \$ | 2,230.41 |
| Feb-2019 \$ 1,291.29 Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 1,760.85 May-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Aug-2019 | \$ | |
| Jan-2019 \$ 1,408.68 Jul-2019 \$ 1,056.51 Jun-2019 \$ 3,052.14 Mar-2019 \$ 1,760.85 May-2019 \$ 3,169.53 Nov-2019 \$ 3,639.09 Oct-2019 \$ 3,521.70 Sep-2019 \$ 4,108.65 Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | | | |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Feb-2019 | \$ | |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Jan-2019 | \$ | 1,408.68 |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Jul-2019 | \$ | 1,056.51 |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Jun-2019 | \$ | |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | Mar-2019 | \$ | 1,760.85 |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | May-2019 | \$ | |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | | \$ | |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 | | \$ | |
| Apr-2019 \$ 3,384.00 Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 Feb-2019 \$ 2,516.00 | Sep-2019 | \$ | 4,108.65 |
| Aug-2019 \$ 3,908.00 Dec-2019 \$ 2,372.00 Feb-2019 \$ 2,516.00 | Apr-2019 | \$ | 3,384.00 |
| Dec-2019 \$ 2,372.00 Feb-2019 \$ 2,516.00 | | \$ | |
| Feb-2019 \$ 2,516.00 | | \$ | |
| | Feb-2019 | \$ | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------|
| Jan-2019 | \$ | 2,004.00 |
| Jul-2019 | \$ | 3,600.00 |
| Jun-2019 | \$ | 4,188.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ | 2,180.00 |
| May-2019 | \$ | 3,564.00 |
| Nov-2019 | \$ | 2,688.00 |
| Oct-2019 | \$ | 3,300.00 |
| Sep-2019 | \$ | 3,232.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,457.00 |
| Aug-2019 | \$ | 2,850.00 |
| Dec-2019 | \$ | 1,746.00 |
| Feb-2019 | \$ | 1,797.00 |
| Jan-2019 | \$ | 1,449.00 |
| Jul-2019 | \$ | 2,493.00 |
| Jun-2019 | \$ | 3,021.00 |
| Mar-2019 | \$ | 1,590.00 |
| May-2019 | \$ | 2,703.00 |
| Nov-2019 | \$ | 1,992.00 |
| Oct-2019 | \$ | 2,403.00 |
| Sep-2019 | \$ | 2,496.00 |
| Apr-2019 | ٠ | 146.86 |
| • | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | |
| Aug-2019 Dec-2019 | > | 146.86 |
| | ۶ د | 73.43 |
| Jan-2019 Jul-2019 | \$ | 73.43 73.43 |
| Jun-2019 | <u>ې</u> د | 146.86 |
| | <u>ې</u> د | |
| Mar-2019 | > | 73.43 |
| May-2019 Nov-2019 | ې د | 73.43 73.43 |
| Oct-2019 | ې د | 73.43 |
| Sep-2019 | \$ | 73.43 |
| 3ep-2019 | Ş_ | /3.43 |
| Apr-2019 | \$ | 73.43 |
| Aug-2019 | \$ \$ \$ \$ \$ | 146.86 |
| Dec-2019 | ς . | 73.43 |
| Feb-2019 | Š | 73.43 |
| Jul-2019 | Š | 146.86 |
| Jun-2019 | | 73.43 |
| Mar-2019 | Š | 73.43 |
| May-2019 | \$ | 146.86 |
| Nov-2019 | \$ \$ \$ \$ | 73.43 |
| Oct-2019 | \$ | 146.86 |
| Sep-2019 | \$ | 73.43 |
| | | |
| Apr-2019 | \$ | 3,232.00 |
| Aug-2019 | \$ | 3,892.00 |
| Dec-2019 | \$ | 2,364.00 |
| Feb-2019 | \$ | 2,376.00 |
| Jan-2019 | \$ | 1,796.00 |
| Jul-2019 | \$ \$ \$ \$ \$ \$ | 3,612.00 |
| Jun-2019 | \$ | 3,972.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------------|
| Mar-2019 | \$ | 1,960.00 |
| May-2019 | \$ \$ | 3,320.00 |
| Nov-2019 | \$ | 2,704.00 |
| Oct-2019 | \$ \$ \$ | 3,416.00 |
| Sep-2019 | \$ | 3,488.00 |
| Jan-2019 | \$ | 368.92 |
| | | |
| Apr-2019 | \$ | 234.78 |
| Aug-2019 | \$ | 352.17 |
| Dec-2019 | \$ | 234.78 |
| Feb-2019 | \$ | 234.78 |
| Jan-2019 | \$ | 117.39 |
| Jul-2019 | \$ | 469.56 |
| Jun-2019 | \$ | 352.17 |
| Mar-2019 | \$ | 234.78 |
| May-2019 | \$ | 469.56 |
| Nov-2019 | \$ | 234.78 |
| Oct-2019 | \$ | 352.17 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 469.56 |
| . 2010 | | 224 72 |
| Apr-2019 | \$ | 234.78 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 469.56 |
| Dec-2019 | \$ | 206.86 |
| Feb-2019 | \$ | 117.39 |
| Jan-2019 | \$ | 117.39 |
| Jul-2019 | \$ | 352.17 |
| Jun-2019 | \$ | 352.17 |
| Mar-2019 | \$ | 234.78 |
| May-2019 | \$ | 352.17 |
| Nov-2019 | \$ | 310.29 |
| Oct-2019 | \$ | 310.29 |
| Sep-2019 | \$ | 352.17 |
| Apr-2019 | \$ | - |
| Aug-2019 | \$ \$ \$ \$ \$ | 8,955.14 |
| Dec-2019 | \$ | - |
| Feb-2019 | \$ | = |
| Jan-2019 | \$ | - |
| Jul-2019 | \$ | 4,831.47 |
| Jun-2019 | \$ | - |
| Mar-2019 | \$ | - |
| May-2019 | \$ | - |
| Nov-2019 | \$ | 7,145.81 |
| Oct-2019 | \$ | 12,068.40 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ | 11,374.20 |
| Apr-2019 | ė | 2,056.04 |
| Apr-2019 Aug-2019 | \$ \$ \$ \$ \$ | 5,213.53 |
| | ٠ د | |
| Dec-2019 | \$ * | 2,790.34 1 835 75 |
| Feb-2019 Jan-2019 | Ş | 1,835.75 |
| | ş ¢ | 1,982.61 |
| Jul-2019 | > | 5,140.10 |

| | Counterparty and Payment Dates | | REC Cost |
|--|--------------------------------|---------------------------------------|-----------------|
| Apr-2019 \$ 13,834.50 Aug-2019 \$ 10,591.50 Dec-2019 \$ 10,591.50 Jan-2019 \$ 7,400.25 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 16,974.00 Mar-2019 \$ 14,524.50 Nov-2019 \$ 14,524.50 Oct-2019 \$ 15,111.00 Sep-2019 \$ 15,111.00 Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Apr-2019 \$ 3, | Jun-2019 | \$ | 4,626.09 |
| Apr-2019 \$ 13,834.50 Aug-2019 \$ 10,591.50 Dec-2019 \$ 10,591.50 Jan-2019 \$ 7,400.25 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 16,974.00 Mar-2019 \$ 14,524.50 Nov-2019 \$ 14,524.50 Oct-2019 \$ 15,111.00 Sep-2019 \$ 15,111.00 Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Apr-2019 \$ 3, | Mar-2019 | \$ | |
| Apr-2019 \$ 13,834.50 Aug-2019 \$ 10,591.50 Dec-2019 \$ 10,591.50 Jan-2019 \$ 7,400.25 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 16,974.00 Mar-2019 \$ 14,524.50 Nov-2019 \$ 14,524.50 Oct-2019 \$ 15,111.00 Sep-2019 \$ 15,111.00 Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Apr-2019 \$ 3, | | \$ | |
| Apr-2019 \$ 13,834.50 Aug-2019 \$ 10,591.50 Dec-2019 \$ 10,591.50 Jan-2019 \$ 7,400.25 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 16,974.00 Mar-2019 \$ 14,524.50 Nov-2019 \$ 14,524.50 Oct-2019 \$ 15,111.00 Sep-2019 \$ 15,111.00 Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Apr-2019 \$ 3, | | \$ | |
| Apr-2019 \$ 13,834.50 Aug-2019 \$ 10,591.50 Dec-2019 \$ 10,591.50 Jan-2019 \$ 7,400.25 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 15,628.50 Jan-2019 \$ 16,974.00 Mar-2019 \$ 14,524.50 Nov-2019 \$ 14,524.50 Oct-2019 \$ 15,111.00 Sep-2019 \$ 15,111.00 Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 1,952.00 Jan-2019 \$ 3,328.00 Aug-2019 \$ 1,952.00 Jan-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Feb-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Aug-2019 \$ 3,356.00 Apr-2019 \$ 3, | | \$ | |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td></td> <td>\$</td> <td></td> | | \$ | |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td></td> <td></td> <td></td> | | | |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td></td> <td>\$</td> <td></td> | | \$ | |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td></td> <td>\$</td> <td>16,577.25</td> | | \$ | 16,577.25 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td></td> <td>\$</td> <td>10,591.50</td> | | \$ | 10,591.50 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>Feb-2019</td> <td>\$</td> <td>9,608.25</td> | Feb-2019 | \$ | 9,608.25 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>Jan-2019</td> <td>\$</td> <td>7,400.25</td> | Jan-2019 | \$ | 7,400.25 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>Jul-2019</td> <td>\$</td> <td>15,628.50</td> | Jul-2019 | \$ | 15,628.50 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>Jun-2019</td> <td>\$</td> <td>16,974.00</td> | Jun-2019 | \$ | 16,974.00 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>Mar-2019</td> <td>\$</td> <td>8,573.25</td> | Mar-2019 | \$ | 8,573.25 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>May-2019</td> <td>\$</td> <td>14,524.50</td> | May-2019 | \$ | 14,524.50 |
| Sep-2019 \$ 15,456.00 Apr-2019 \$ 3,328.00 Aug-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 2,404.00 Jan-2019 \$ 1,952.00 Jul-2019 \$ 3,820.00 Jul-2019 \$ 4,296.00 Mar-2019 \$ 13,600.00 Mov-2019 \$ 3,600.00 Nov-2019 \$ 3,636.00 Eep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 107,558.22 Jun-2019 \$ 107,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 96,468.90 Mar-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 107,975.04 Sep-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 Oct-2019 \$ 109,195.02 <td>Nov-2019</td> <td>\$</td> <td>11,764.50</td> | Nov-2019 | \$ | 11,764.50 |
| Apr-2019 \$ 3,328.00 Dec-2019 \$ 4,284.00 Dec-2019 \$ 2,356.00 Feb-2019 \$ 1,952.00 Jan-2019 \$ 3,820.00 Jun-2019 \$ 3,820.00 Jun-2019 \$ 4,296.00 Mar-2019 \$ 2,136.00 Mar-2019 \$ 3,560.00 Nov-2019 \$ 3,560.00 Nov-2019 \$ 3,560.00 Apr-2019 \$ 3,452.00 Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 106,514.76 Dec-2019 \$ 107,558.22 Jun-2019 \$ 107,558.22 Jun-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 10,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 96,468.90 Mar-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 175,394.40 Apr-2019 \$ 3,040.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Aug-2019 \$ 3, | Oct-2019 | \$ | 15,111.00 |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | Sep-2019 | \$ | 15,456.00 |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | Jul-2019 | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Sep-2019 \$ 3,636.00 Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,880.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 107,750.4 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 97,410.06 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Apr-2019 \$ 116,847.06 Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,890.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | | |
| Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,890.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | Sep-2019 | \$ | 3,636.00 |
| Aug-2019 \$ 106,514.76 Dec-2019 \$ 108,397.08 Feb-2019 \$ 117,890.52 Jan-2019 \$ 113,772.00 Jul-2019 \$ 107,558.22 Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | Apr2019 | ¢ | 116 847 06 |
| Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Jun-2019 \$ 96,468.90 Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Mar-2019 \$ 110,975.04 May-2019 \$ 100,704.12 Nov-2019 \$ 109,195.02 Oct-2019 \$ 97,410.06 Sep-2019 \$ 115,394.40 Apr-2019 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | | |
| Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | ζ΄ | |
| Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | Š | |
| Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 | | \$ | |
| Apr-2019 \$ 4,000.00 Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 Jun-2019 \$ 5,105.00 | | · · · · · · · · · · · · · · · · · · · | |
| Aug-2019 \$ 5,085.00 Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 Jun-2019 \$ 5,105.00 | Apr-2019 | \$ | |
| Dec-2019 \$ 3,040.00 Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 Jun-2019 \$ 5,105.00 | | \$ | 5,085.00 |
| Feb-2019 \$ 3,140.00 Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 Jun-2019 \$ 5,105.00 | Dec-2019 | \$ | 3,040.00 |
| Jan-2019 \$ 2,500.00 Jul-2019 \$ 4,615.00 Jun-2019 \$ 5,105.00 | Feb-2019 | \$ | 3,140.00 |
| Jul-2019 \$ 4,615.00 Jun-2019 \$ 5,105.00 | Jan-2019 | \$ | 2,500.00 |
| Jun-2019 \$ 5,105.00 | Jul-2019 | \$ | 4,615.00 |
| | Jun-2019 | \$ | 5,105.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Mar-2019 | \$ | 2,715.00 |
| May-2019 | \$ \$ | 4,500.00 |
| Nov-2019 | \$ | 3,520.00 |
| Oct-2019 | \$ | 4,580.00 |
| Sep-2019 | \$ | 4,445.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,300.00 |
| Aug-2019 | \$ | 4,176.00 |
| Dec-2019 | \$ | 2,408.00 |
| Feb-2019 | \$ | 2,496.00 |
| Jan-2019 | \$ | 2,068.00 |
| Jul-2019 | \$ | 3,664.00 |
| Jun-2019 | \$ | 4,096.00 |
| Mar-2019 | \$ | 2,148.00 |
| May-2019 | \$ | 3,484.00 |
| Nov-2019 | \$ | 2,692.00 |
| Oct-2019 | \$ | 3,532.00 |
| Sep-2019 | \$ | 3,548.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,236.00 |
| Aug-2019 | \$ | 2,948.00 |
| Dec-2019 | \$ | 2,116.00 |
| Feb-2019 | \$ | 1,996.00 |
| Jan-2019 | \$ | 1,100.00 |
| Jul-2019 | \$ | 3,768.00 |
| Jun-2019 | \$ | 4,120.00 |
| Mar-2019 | \$ | 2,048.00 |
| May-2019 | \$ | 3,428.00 |
| Nov-2019 | \$ | 2,644.00 |
| Oct-2019 | \$ | 3,384.00 |
| Sep-2019 | \$\$ | 3,404.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ | 4,020.00 |
| Aug-2019 | \$ | 4,715.00 |
| Dec-2019 | \$ | 2,975.00 |
| Feb-2019 | \$ | 2,945.00 |
| Jan-2019 | \$ | 2,340.00 |
| Jul-2019 | \$ | 4,305.00 |
| Jun-2019 | | 4,955.00 |
| Mar-2019 | \$ | 2,625.00 |
| May-2019 | \$ | 4,295.00 |
| Nov-2019 | \$ | 3,370.00 |
| Oct-2019 | \$ \$ \$ \$ | 4,305.00 |
| Sep-2019 | \$ | 4,105.00 |
| | | |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 12,714.20 |
| Dec-2019 | \$ | 5,858.80 |
| Feb-2019 | \$ | 6,458.40 |
| Jan-2019 | \$ | 5,474.49 |
| Jun-2019 | \$ | 6,462.80 |
| Mar-2019 | \$ | 3,941.10 |
| May-2019 | \$ | 13,748.55 |
| Nov-2019 | \$ | 5,587.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Oct-2019 | \$ | 6,311.80 |
| Sep-2019 | \$ | 6,085.30 |
| | | |
| Apr-2019 | \$ | 3,184.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,896.00 |
| Dec-2019 | \$ | 2,308.00 |
| Feb-2019 | \$ | 2,360.00 |
| Jan-2019 | \$ | 1,912.00 |
| Jul-2019 | \$ | 3,564.00 |
| Jun-2019 | \$ | 3,860.00 |
| Mar-2019 | \$ | 2,036.00 |
| May-2019 | \$ | 3,204.00 |
| Nov-2019 | \$ | 2,592.00 |
| Oct-2019 | \$ | 3,228.00 |
| Sep-2019 | \$ | 3,512.00 |
| | | |
| Apr-2019 | \$ | 3,521.70 |
| Dec-2019 | \$ | 2,582.58 |
| Feb-2019 | \$ | 2,582.58 |
| Jan-2019 | \$ | 1,995.63 |
| Jul-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,756.48 |
| Jun-2019 | \$ | 4,343.43 |
| Mar-2019 | \$ | 2,113.02 |
| May-2019 | \$ | 3,639.09 |
| Nov-2019 | \$ | 3,052.14 |
| Oct-2019 | \$ | 3,991.26 |
| Sep-2019 | \$ | 8,217.30 |
| | | 45.00-00 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 15,027.86 |
| Aug-2019 | \$ | 17,779.44 |
| Dec-2019 | \$ | 6,561.46 |
| Feb-2019 | \$ | 10,794.66 |
| Jan-2019 | \$ | 6,807.57 |
| Jul-2019 | \$ | 16,297.82 |
| Jun-2019 | \$ | 18,202.76 |
| Mar-2019 | \$ \$ | 9,524.70 |
| May-2019 | > | 15,451.18 |
| Nov-2019 | \$ * | 11,429.64 |
| Oct-2019 Sep-2019 | | 15,451.18 |
| Sep-2019 | \$ | 16,086.16 |
| Apr-2019 | · | 1,643.46 |
| Aug-2019 | Š | 3,873.87 |
| Dec-2019 | Š | 5,047.77 |
| Feb-2019 | Ś | 1,408.68 |
| Jan-2019 | \$ | 2,347.80 |
| Jul-2019 | \$ | 4,578.21 |
| Jun-2019 | \$ | 3,756.48 |
| Mar-2019 | \$ | 2,347.80 |
| May-2019 | \$ | 3,521.70 |
| Nov-2019 | \$ | 3,052.14 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,756.48 |
| Sep-2019 | , \$ | 3,756.48 |
| • | т | , |

•

| REC Cost | | Counterparty and Payment Dates |
|----------------------|---|--|
| | | _ |
| 328.50 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Apr-2019 |
| 740.25 | \$ | Aug-2019 |
| 630.00 | \$ | Dec-2019 |
| 380.25 | \$ | Feb-2019 |
| 504.00 | \$ | Jan-2019 |
| 931.50 | \$ | Jul-2019 |
| 873.00 | \$ | Jun-2019 |
| 589.50 | \$ | Mar-2019 |
| 648.00 | \$ | May-2019 |
| 702.00 | \$ | Nov-2019 |
| 821.25 | \$ | Oct-2019 |
| 981.00 | \$ | Sep-2019 |
| 3,172.00 | \$ | Apr-2019 |
| 3,968.00 | \$ | Aug-2019 |
| 2,300.00 | \$ | Dec-2019 |
| 2,452.00 | \$ | Feb-2019 |
| 1,964.00 | \$ | Jan-2019 |
| 3,704.00 | \$ | Jul-2019 |
| 4,184.00 | \$ | Jun-2019 |
| 2,200.00 | \$ | Mar-2019 |
| 3,608.00 | \$ | May-2019 |
| 2,768.00 | \$ | Nov-2019 |
| 3,632.00 | \$ | Oct-2019 |
| 3,552.00 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Sep-2019 |
| 2.040.10 | | Ann 2010 |
| 3,040.10 | \$ ¢ | Apr-2019 |
| 3,778.41 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Aug-2019 |
| 5,124.74 | \$ ¢ | Dec-2019 |
| 2,084.64 | \$ | Feb-2019 |
| 3,995.56 | \$ ¢ | Jan-2019 |
| 3,430.97 | \$ | Jul-2019 |
| 3,561.26 | \$ | Jun-2019 |
| 2,866.38 | \$ | Mar-2019 |
| 3,344.11 | \$ | May-2019 |
| 6,340.78 | \$ | Nov-2019 |
| 5,559.04 3,561.26 | \$ \$ | Oct-2019 Sep-2019 |
| 3,301.20 | · · | 3ep-2019 |
| 3,328.00 | \$ | Apr-2019 |
| 3,984.00 | \$ | Aug-2019 |
| 2,412.00 | \$ | Dec-2019 |
| 2,496.00 | \$ | Feb-2019 |
| 2,012.00 | \$ | Jan-2019 |
| 3,616.00 | \$ | Jul-2019 |
| 4,248.00 | \$ | Jun-2019 |
| 2,188.00 | \$ | Mar-2019 |
| 3,592.00 | \$ | |
| 2,548.00 | \$ | |
| 3,444.00 | Ś | |
| 3,424.00 | Š | |
| | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | May-2019 Nov-2019 Oct-2019 Sep-2019 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|---|----------|
| Apr-2019 | \$ | 1,822.50 |
| Aug-2019 | \$ | 2,004.75 |
| Dec-2019 | \$ | 1,300.50 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,044.00 |
| Jan-2019 | \$ | 749.25 |
| Jul-2019 | \$ | 1,818.00 |
| Jun-2019 | \$ | 2,119.50 |
| Mar-2019 | Ś | 1,129.50 |
| May-2019 | Ś | 1,847.25 |
| , Nov-2019 | Ś | 1,428.75 |
| Oct-2019 | \$ | 1,728.00 |
| Sep-2019 | Š | 1,829.25 |
| | Ŷ | 1,029.29 |
| Apr-2019 | ς | 4,010.00 |
| Aug-2019 | ζ , | 4,830.00 |
| Dec-2019 | č | 2,815.00 |
| Feb-2019 | ž | 2,820.00 |
| Jan-2019 | ş ¢ | 2,175.00 |
| Jul-2019 | ş | |
| | \$ ¢ | 4,620.00 |
| Jun-2019 | \$ ¢ | 5,160.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,535.00 |
| May-2019 | \$ * | 4,255.00 |
| Nov-2019 | \$ | 3,000.00 |
| Oct-2019 | \$ | 3,745.00 |
| Sep-2019 | \$ | 4,290.00 |
| Apr-2019 | \$\$\$\$\$\$\$\$\$\$\$\$\$ | 3,955.00 |
| Aug-2019 | \$ | 4,780.00 |
| Dec-2019 | \$ | 2,930.00 |
| Feb-2019 | \$ | 2,985.00 |
| Jan-2019 | \$ | 2,255.00 |
| Jul-2019 | \$ | 4,370.00 |
| Jun-2019 | \$ | 4,810.00 |
| Mar-2019 | \$ | 2,505.00 |
| May-2019 | \$ | 4,085.00 |
| Nov-2019 | \$ | 3,300.00 |
| Oct-2019 | \$ | 4,080.00 |
| Sep-2019 | \$ | 4,265.00 |
| Apr-2019 | Ċ | 234.78 |
| Aug-2019 | ÷ | 469.56 |
| Dec-2019 | ÷ | 352.17 |
| Feb-2019 | ş ¢ | 234.78 |
| | Ş E | |
| Jan-2019 | Ş Ç | 117.39 |
| Jul-2019 | > | 586.95 |
| Jun-2019 | \$ * | 352.17 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 234.78 |
| May-2019 | \$ | 469.56 |
| Nov-2019 | \$ | 352.17 |
| Oct-2019 | \$ | 352.17 |
| Sep-2019 | <u>\$</u> | 469.56 |
| Apr-2019 | \$ | 2,580.00 |
| • | • | • |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|--------------------------|
| Aug-2019 | \$ | 3,288.00 |
| Dec-2019 | \$ | 1,860.00 |
| Feb-2019 | \$ | 1,839.00 |
| Jan-2019 | \$ | 1,422.00 |
| Jul-2019 | \$ | 2,925.00 |
| Jun-2019 | \$ | 3,249.00 |
| Mar-2019 | \$ | 1,620.00 |
| May-2019 | \$ | 2,691.00 |
| Nov-2019 | \$ | 2,163.00 |
| Oct-2019 | \$ | 2,784.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,883.00 |
| | | |
| Apr-2019 | \$ | 3,184.00 |
| Aug-2019 | \$ | 3,884.00 |
| Dec-2019 | \$ | 2,500.00 |
| Feb-2019 | \$ | 2,444.00 |
| Jan-2019 | \$ | 1,748.00 |
| Jul-2019 | , \$ | 3,548.00 |
| Jun-2019 | \$ | 4,136.00 |
| Mar-2019 | \$ | 2,176.00 |
| May-2019 | \$ | 3,396.00 |
| Nov-2019 | \$ | 2,828.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,512.00 |
| Sep-2019 | \$ | 3,612.00 |
| Apr-2019 | ė | 170,622.25 |
| Aug-2019 | ÷ | 226,428.00 |
| Dec-2019 | ÷ | 302,205.25 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 210,351.50 |
| Jan-2019 | ÷ | 199,606.50 |
| Jul-2019 | ÷ | 204,850.75 |
| Jun-2019 | ę | 238,923.00 |
| Mar-2019 | ş | 173,728.00 |
| | \$ | |
| May-2019 Nov-2019 | ş ¢ | 193,834.00 164,027.00 |
| | \$ ¢ | |
| Oct-2019 | \$ \$ | 216,218.75 |
| Sep-2019 | \$ | 179,691.00 |
| Apr-2019 | \$ | 237,496.00 |
| Aug-2019 | | 352,669.25 |
| Dec-2019 | \$ | 400,327.75 |
| Feb-2019 | \$ | 325,183.75 |
| Jan-2019 | , \$ | 298,012.25 |
| Jul-2019 | Ś | 376,499.50 |
| Jun-2019 | s · | 351,484.00 |
| Mar-2019 | \$ | 277,057.00 |
| May-2019 | Š | 266,524.00 |
| Nov-2019 | Š | 357,401.75 |
| Oct-2019 | Ś | 313,455.50 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 303,245.25 |
| | | |
| Apr-2019 | \$ | 359,462.50 |
| Aug-2019 | \$ | 605,634.00 |
| | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|--------------|
| Dec-2019 | \$ | 828,742.00 |
| Jan-2019 | \$ | 1,292,312.00 |
| Jul-2019 | \$ | 615,477.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ | 612,292.50 |
| Mar-2019 | \$ | 767,659.50 |
| May-2019 | \$ | 1,010,258.50 |
| Nov-2019 | \$ | 1,327,647.00 |
| Sep-2019 | \$ | 658,419.50 |
| | | 2.242.00 |
| Apr-2019 | \$ | 3,240.00 |
| Aug-2019 | \$ | 3,876.00 |
| Dec-2019 | \$ | 2,284.00 |
| Feb-2019 | \$ | 2,160.00 |
| Jan-2019 | \$ | 1,316.00 |
| Jul-2019 | \$ | 3,700.00 |
| Jun-2019 | \$ | 4,084.00 |
| Mar-2019 | \$ | 2,100.00 |
| May-2019 | \$ | 3,352.00 |
| Nov-2019 | \$ | 2,772.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,520.00 |
| Sep-2019 | \$ | 3,584.00 |
| Apr-2019 | \$ | 3,970.00 |
| Aug-2019 | ζ, | 5,045.00 |
| Dec-2019 | ć | 2,905.00 |
| Feb-2019 | ζ , | 2,850.00 |
| Jan-2019 | ζ , | 2,345.00 |
| Jul-2019 | ÷ | 4,570.00 |
| Jun-2019 | ζ, | 5,155.00 |
| Mar-2019 | ć | 2,510.00 |
| May-2019 | ć | 4,360.00 |
| Nov-2019 | ć | 3,300.00 |
| Oct-2019 | ÷ . | 4,150.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,260.00 |
| | | |
| Apr-2019 | \$ \$ \$ | 2,334.0 |
| Aug-2019 | \$ | 2,877.0 |
| Dec-2019 | | 1,710.00 |
| Feb-2019 | \$ | 1,770.0 |
| Jan-2019 | \$ | 1,215.0 |
| Jul-2019 | \$ | 2,637.0 |
| Jun-2019 | \$ | 2,955.0 |
| Mar-2019 | \$ | 1,536.0 |
| May-2019 | \$ | 2,496.0 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ | 1,953.0 |
| Oct-2019 | \$ | 2,559.0 |
| Sep-2019 | \$ | 2,586.0 |
| Feb-2019 | \$ | 1,448.0 |
| Apr-2019 | \$ | 815.0 |
| Apr-2019 Aug-2019 | \$ | 230.0 |
| Dec-2019 | \$ \$ | 450.0 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|------------|
| Feb-2019 | \$ | 930.00 |
| Jan-2019 | \$ | 1,090.00 |
| Jul-2019 | \$ | 485.00 |
| Jun-2019 | \$ | 455.00 |
| Mar-2019 | \$ | 745.00 |
| May-2019 | \$ | 845.00 |
| Nov-2019 | \$ | 25.00 |
| Oct-2019 | \$ | 45.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 405.00 |
| | | |
| Apr-2019 | \$ | 3,960.00 |
| Aug-2019 | \$ | 4,435.00 |
| Dec-2019 | \$ | 2,960.00 |
| Feb-2019 | \$ | 2,980.00 |
| Jan-2019 | \$ | 2,355.00 |
| Jul-2019 | \$ | 4,135.00 |
| Jun-2019 | \$ | 4,740.00 |
| Mar-2019 | \$ | 2,545.00 |
| May-2019 | \$ | 4,165.00 |
| Nov-2019 | \$ | 3,205.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,980.00 |
| Sep-2019 | \$ | 3,865.00 |
| | | |
| Jan-2019 | \$ | 403,650.00 |
| Apr-2019 | \$ | 117.39 |
| Aug-2019 | \$ | 352.17 |
| Dec-2019 | \$ | 117.39 |
| Feb-2019 | \$ | 117.39 |
| Jan-2019 | \$ | 117.39 |
| Jul-2019 | \$ | 234.78 |
| Mar-2019 | * * * * * * * * * * * | 234.78 |
| May-2019 | \$ | 586.95 |
| Nov-2019 | \$ | 234.78 |
| Oct-2019 | \$ | 352.17 |
| Sep-2019 | \$ | 352.17 |
| | _ | |
| Apr-2019 | \$ | 4,045.00 |
| Aug-2019 | \$ | 4,025.00 |
| Dec-2019 | \$ | 2,810.00 |
| Feb-2019 | \$ | 2,890.00 |
| Jan-2019 | \$ | 2,360.00 |
| Jul-2019 | \$ | 3,885.00 |
| Jun-2019 | \$ | 4,140.00 |
| Mar-2019 | \$ | 2,585.00 |
| May-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,845.00 |
| Nov-2019 | \$ | 2,845.00 |
| Oct-2019 | \$ | 3,420.00 |
| Sep-2019 | \$ | 3,460.00 |
| | | 1 222 5- |
| Apr-2019 | \$ \$ \$ | 1,833.75 |
| Aug-2019 | \$ | 2,083.50 |
| Dec-2019 | \$ | 1,280.25 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| Feb-2019 | \$ | 1,406.25 |
| Jan-2019 | \$ | 1,149.75 |
| Jul-2019 | \$ | 1,887.75 |
| Jun-2019 | \$ | 2,171.25 |
| Mar-2019 | \$ | 1,176.75 |
| May-2019 | \$ | 1,928.25 |
| Nov-2019 | \$ | 1,428.75 |
| Oct-2019 | \$ \$ \$ \$ | 1,827.00 |
| Sep-2019 | \$ | 1,820.25 |
| Apr-2019 | | 468.00 |
| Aug-2019 | ې د | 830.25 |
| Dec-2019 | Ş | |
| | \$ | 632.25 |
| Feb-2019 | \$ | 528.75 |
| Jan-2019 | \$ | 501.75 |
| Jul-2019 | \$ | 897.75 |
| Jun-2019 | Ş ¢ | 828.00 |
| Mar-2019 | > | 643.50 |
| May-2019 | \$ \$ | 810.00 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 681.75 |
| Oct-2019 | \$ \$ | 769.50 |
| Sep-2019 | \$ | 886.50 |
| Apr-2019 | \$ | 117.39 |
| Aug-2019 | \$ | 352.17 |
| Feb-2019 | \$ | 117.39 |
| Jul-2019 | \$ | 117.39 |
| Jun-2019 | \$ | 234.78 |
| Mar-2019 | \$ | 117.39 |
| May-2019 | \$ | 117.39 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 234.78 |
| Oct-2019 | \$ | 234.78 |
| Apr-2019 | | 3,920.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ | 4,425.00 |
| Dec-2019 | Š | 3,175.00 |
| Feb-2019 | \$ | 3,095.00 |
| Jan-2019 | Š | 2,460.00 |
| Jul-2019 | Š | 4,165.00 |
| Jun-2019 | • | 4,620.00 |
| Mar-2019 | Š | 2,515.00 |
| May-2019 | Š | 4,120.00 |
| Nov-2019 | Š | 3,360.00 |
| Oct-2019 | \$ | 4,175.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ | 4,195.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ | - |
| Aug-2019 | \$ | - |
| Dec-2019 | \$ | - |
| Feb-2019 | \$ | - |
| Jan-2019 | \$ | - |
| Jul-2019 | \$ | - |
| Jun-2019 | \$ | - |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------------|
| Mar-2019 | \$ | - |
| May-2019 | \$ | - |
| Nov-2019 | \$ | - |
| Oct-2019 | \$ \$ \$ \$ | - |
| Sep-2019 | \$ | 8,893.80 |
| A 2010 | | 2.269.00 |
| Apr-2019 | > | 3,268.00 |
| Aug-2019 | \$ \$ | 3,988.00 |
| Dec-2019 | \$ \$ | 1,292.00 |
| Feb-2019 | \$ \$ | 2,480.00 |
| Jan-2019 | \$ \$ | 1,916.00 |
| Jul-2019 | \$ \$ | 3,668.00 |
| Jun-2019 | \$ \$ | 4,044.00 |
| Mar-2019 | \$ \$ | 2,056.00 |
| May-2019 | \$ \$ | 3,440.00 |
| Nov-2019 | \$ \$ | 2,776.00 |
| Oct-2019 Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,464.00 3,564.00 |
| 2eh-501a | · · · · · · · · · · · · · · · · · · · | 3,304.00 |
| Apr-2019 | \$ | 3,280.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,955.00 |
| Dec-2019 | \$ | 2,245.00 |
| Feb-2019 | \$ | 2,435.00 |
| Jan-2019 | \$ | 1,960.00 |
| Jul-2019 | \$ | 3,550.00 |
| Jun-2019 | \$ | 4,045.00 |
| Mar-2019 | \$ | 2,025.00 |
| May-2019 | \$ | 3,435.00 |
| Nov-2019 | \$ | 2,655.00 |
| Oct-2019 | \$ | 3,485.00 |
| Sep-2019 | \$ | 3,530.00 |
| | | 2.075.00 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 3,975.00 |
| Aug-2019 | \$ | 4,270.00 |
| Dec-2019 | \$ | 2,895.00 |
| Feb-2019 | \$ | 3,085.00 |
| Jan-2019 | \$ | 2,490.00 |
| Jul-2019 | \$ | 4,245.00 |
| Jun-2019 | \$ | 4,775.00 |
| Mar-2019 | \$ | 2,550.00 |
| May-2019 | \$ | 4,195.00 |
| Nov-2019 | \$ | 3,115.00 |
| Oct-2019 | \$ \$ \$ \$ \$ | 3,745.00 |
| Sep-2019 | ۶ | 4,080.00 |
| Apr-2019 | \$ | 2,129.47 |
| Aug-2019 | \$ | 4,626.09 |
| Feb-2019 | \$ | 1,615.46 |
| Jan-2019 | \$ | 2,643.48 |
| Jul-2019 | \$ | 5,507.25 |
| Mar-2019 | \$ | 2,202.90 |
| May-2019 | \$ \$ \$ \$ \$ \$ \$ | 8,738.17 |
| Nov-2019 | \$ | 6,682.13 |
| Nov-2019 | \$ | 6,682.13 |

| Counterparty and Payment Dates | | REC Cost |
|---------------------------------------|--|---------------------------------------|
| Oct-2019 | \$ | 4,699.52 |
| Sep-2019 | \$ | 4,626.09 |
| | · | · · · · · · · · · · · · · · · · · · · |
| Apr-2019 | \$ | 684.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 948.00 |
| Dec-2019 | \$ | 716.00 |
| Feb-2019 | , \$ | 740.00 |
| Jan-2019 | \$ | 844.00 |
| Jul-2019 | s S | 1,472.00 |
| Jun-2019 | \$ | 1,272.00 |
| Mar-2019 | \$ | 960.00 |
| May-2019 | \$ | 1,080.00 |
| , Nov-2019 | \$ | 936.00 |
| Oct-2019 | \$ | 1,000.00 |
| Sep-2019 | \$ | 1,260.00 |
| | | |
| Apr-2019 | \$ | 3,970.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,905.00 |
| Dec-2019 | Š | 2,850.00 |
| Feb-2019 | Š | 3,040.00 |
| Jan-2019 | Ś | 2,465.00 |
| Jul-2019 | Ś | 4,465.00 |
| Jun-2019 | Š | 4,975.00 |
| Mar-2019 | \$ | 2,580.00 |
| May-2019 | \$ | 4,215.00 |
| Nov-2019 | \$ | 3,135.00 |
| Oct-2019 | \$ | 4,075.00 |
| Sep-2019 | \$ | 3,995.00 |
| | | 5,555.05 |
| Apr-2019 | Ś | 9,737.83 |
| Aug-2019 | Ś | 34,534.16 |
| Feb-2019 | Ś | 9,772.56 |
| Jan-2019 | \$ | 17,218.25 |
| Jun-2019 | Ś | 17,969.81 |
| May-2019 | Ś | 24,997.11 |
| Nov-2019 | \$ | 11,243.68 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 30,920.12 |
| | | |
| Apr-2019 | \$ | 117.39 |
| Aug-2019 | | 469.56 |
| Dec-2019 | , S | 234.78 |
| Feb-2019 | , S | 234.78 |
| Jan-2019 | \$ | 117.39 |
| Jul-2019 | \$ | 469.56 |
| Jun-2019 | \$ | 469.56 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 234.78 |
| May-2019 | \$ | 352.17 |
| Nov-2019 | Š | 234.78 |
| Oct-2019 | Š | 469.56 |
| Sep-2019 | \$ | 469.56 |
| r | <u> </u> | |
| Apr-2019 | \$ | 3,036.11 |
| Aug-2019 | \$ | 6,072.22 |
| | 7 | 5,512.22 |

| Dec-2019 Feb-2019 Ian-2019 Iul-2019 | \$ \$ \$ \$ \$ \$ | 4,810.46 2,586.81 |
|--|----------------------------|----------------------|
| lan-2019 | \$ | |
| | \$ \$ | 2 (22 0) |
| lul-2019 | \$ | 2,622.96 |
| | | 6,111.65 |
| lun-2019 | ډ, | 6,348.23 |
| Mar-2019 | \$ | 3,588.13 |
| May-2019 | \$ | 5,638.49 |
| Nov-2019 | \$ | 5,086.47 |
| Oct-2019 | \$ | 5,756.78 |
| Sep-2019 | \$ \$ \$ \$ | 6,348.23 |
| Apr-2019 | ć | 7,043.40 |
| Aug-2019 | ¢ | 6,808.62 |
| Dec-2019 | ¢ | 5,517.33 |
| Feb-2019 | ¢ | 5,634.72 |
| Jan-2019 | ċ | 4,108.65 |
| Jul-2019 | ¢ | 6,691.23 |
| Jun-2019 | ç | 7,512.96 |
| Mar-2019 | ş ç | 4,108.65 |
| May-2019 | ş e | 5,752.11 |
| Nov-2019 | * * * * * * * * * * * * * | 5,399.94 |
| Nov-2019 Oct-2019 | ş ¢ | 6,808.62 |
| Sep-2019 | ş ç | |
| 3eμ-2013 | 7 | 6,926.01 |
| Apr-2019 | **** | 1,372.50 |
| Aug-2019 | \$ | 1,615.50 |
| Dec-2019 | \$ | 1,008.00 |
| Feb-2019 | \$ | 857.25 |
| Jan-2019 | \$ | 83.25 |
| Jul-2019 | \$ | 1,500.75 |
| Jun-2019 | \$ | 1,642.50 |
| Mar-2019 | \$ | 888.75 |
| May-2019 | \$ | 1,451.25 |
| Nov-2019 | \$ | 1,165.50 |
| Oct-2019 | \$ | 1,494.00 |
| Sep-2019 | \$ | 1,453.50 |
| Apr-2019 | \$ | 364.50 |
| Aug-2019 | \$ | 654.75 |
| Dec-2019 | | 528.75 |
| Feb-2019 | S | 364.50 |
| Jan-2019 | Ś | 452.25 |
| Jul-2019 | Ś | 846.00 |
| Jun-2019 | Š | 679.50 |
| Mar-2019 | Ś | 519.75 |
| May-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 643.50 |
| Nov-2019 | \$ | 636.75 |
| Oct-2019 | Š | 724.50 |
| Sep-2019 | Š | 690.75 |
| | <u> </u> | |
| Apr-2019 | \$ \$ \$ | 925.00 |
| Aug-2019 | \$ | 1,820.00 |
| Dec-2019 | \$ | 1,410.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| Feb-2019 | \$ | 1,100.00 |
| Jan-2019 | \$ \$ | 1,090.00 |
| Jul-2019 | \$ | 1,895.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ | 1,765.00 |
| Mar-2019 | \$ | 1,240.00 |
| May-2019 | \$ | 1,615.00 |
| Nov-2019 | \$ | 1,470.00 |
| Oct-2019 | \$ | 1,635.00 |
| Sep-2019 | , \$ | 1,850.00 |
| | | |
| Apr-2019 | \$ | 206.86 |
| Aug-2019 | \$ | 1,344.59 |
| Dec-2019 | \$ | 103.43 |
| Feb-2019 | \$ | 517.15 |
| Jan-2019 | \$ | 206.86 |
| Jul-2019 | \$ | 1,344.59 |
| Jun-2019 | \$ | 1,137.73 |
| Mar-2019 | \$ | 206.86 |
| May-2019 | \$ | 1,034.30 |
| Nov-2019 | \$ | 206.86 |
| Oct-2019 | \$ | 1,137.73 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,241.16 |
| | | , |
| Apr-2019 | \$ | 1,418.31 |
| Aug-2019 | \$ | 3,003.48 |
| Dec-2019 | \$ | 2,002.32 |
| Feb-2019 | \$ | 1,334.88 |
| Jan-2019 | \$ | 1,668.60 |
| Jul-2019 | \$ | 3,504.06 |
| Mar-2019 | \$ | 2,085.75 |
| May-2019 | \$ | 5,589.81 |
| Nov-2019 | \$ | 2,336.04 |
| Oct-2019 | \$ | 2,669.76 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,420.63 |
| | | |
| Apr-2019 | \$ | 22.50 |
| Aug-2019 | \$ | 62.50 |
| Feb-2019 | \$ \$ \$ \$ | 15.00 |
| Jan-2019 | \$ | 20.00 |
| Jul-2019 | \$ | 30.00 |
| Mar-2019 | \$ \$ \$ \$ | 12.50 |
| May-2019 | \$ | 55.00 |
| Nov-2019 | \$ | 22.50 |
| Oct-2019 | \$ | 60.00 |
| | | |
| Apr-2019 | \$ | 2,605.00 |
| Aug-2019 | \$ | 3,055.00 |
| Dec-2019 | \$ | 2,010.00 |
| Feb-2019 | \$ | 2,105.00 |
| Jan-2019 | \$ | 1,655.00 |
| Jul-2019 | \$ | 3,115.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 3,415.00 |
| Mar-2019 | \$ | 1,790.00 |
| | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|----------------------------------|----------|
| May-2019 | \$ | 3,090.00 |
| Nov-2019 | \$ | 2,365.00 |
| Oct-2019 | \$ \$ \$ \$ | 2,955.00 |
| Sep-2019 | \$ | 3,010.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,915.00 |
| Aug-2019 | \$ | 4,750.00 |
| Dec-2019 | \$ | 2,705.00 |
| Feb-2019 | \$ | 2,930.00 |
| Jan-2019 | \$ | 2,375.00 |
| Jul-2019 | \$ | 4,275.00 |
| Jun-2019 | \$ | 4,955.00 |
| Mar-2019 | \$ | 2,500.00 |
| May-2019 | \$ | 4,200.00 |
| Nov-2019 | \$ | 2,800.00 |
| Oct-2019 | \$ | 3,910.00 |
| Sep-2019 | \$ | 3,995.00 |
| Apr-2019 | \$ | 4,070.00 |
| Aug-2019 | Š | 4,415.00 |
| Dec-2019 | Ś | 2,950.00 |
| Feb-2019 | Ś | 2,980.00 |
| Jan-2019 | Š | 2,335.00 |
| Jul-2019 | Ś | 2,880.00 |
| Mar-2019 | Ś | 2,610.00 |
| May-2019 | Ś | 9,260.00 |
| Nov-2019 | Ś | 2,940.00 |
| Oct-2019 | Ś | 4,340.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,260.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 352.17 |
| Aug-2019 | \$ | 821.73 |
| Dec-2019 | \$ | 586.95 |
| Feb-2019 | \$ | 352.17 |
| Jan-2019 | \$ | 352.17 |
| Jul-2019 | \$ | 1,056.51 |
| Jun-2019 | \$ | 821.73 |
| Mar-2019 | \$ | 352.17 |
| May-2019 | | 821.73 |
| Nov-2019 | \$ | 586.95 |
| Oct-2019 | \$ \$ \$ | 821.73 |
| Sep-2019 | \$ | 939.12 |
| Apr-2019 | \$ | 4,110.00 |
| Aug-2019 | , \$ | 5,060.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,240.00 |
| Feb-2019 | \$ | 3,150.00 |
| Jan-2019 | Š | 2,420.00 |
| Jul-2019 | Š | 4,770.00 |
| Mar-2019 | \$ | 2,645.00 |
| May-2019 | Š | 9,580.00 |
| Nov-2019 | Š | 3,670.00 |
| Oct-2019 | Š | 4,520.00 |
| | * | .,525.00 |

| Counterparty | and | Payment | Dates |
|--------------|-----|----------------|-------|
| | | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| Sep-2019 | \$ | 4,560.00 |
| Any 2010 | | 546.75 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 546.75 |
| Aug-2019 | \$ | 816.75 |
| Dec-2019 | \$ | 636.75 |
| Feb-2019 | \$ | 447.75 |
| Jan-2019 | \$ | 517.50 |
| Jul-2019 | \$ | 868.50 |
| Jun-2019 | \$ | 879.75 |
| Mar-2019 | \$ | 510.75 |
| May-2019 | \$ | 580.50 |
| Nov-2019 | \$ | 774.00 |
| Oct-2019 | \$ | 909.00 |
| Sep-2019 | \$ | 938.25 |
| Apr 2010 | ė | 2 725 00 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,735.00 |
| Aug-2019 | \$ | 5,235.00 |
| Dec-2019 | \$ | 3,165.00 |
| Feb-2019 | \$ | 2,835.00 |
| Jan-2019 | \$ | 2,235.00 |
| Jul-2019 | \$ | 4,680.00 |
| Jun-2019 | \$ | 5,280.00 |
| Mar-2019 | \$ | 2,325.00 |
| May-2019 | \$ | 4,360.00 |
| Nov-2019 | \$ | 3,625.00 |
| Oct-2019 | \$ | 4,680.00 |
| Sep-2019 | \$ | 4,600.00 |
| Apr-2019 | ¢ | 4,000.00 |
| Aug-2019 | ž | 5,565.00 |
| Dec-2019 | ç ¢ | 2,825.00 |
| Feb-2019 | ş ¢ | |
| | \$ ¢ | 3,085.00 |
| Jan-2019 | \$ ¢ | 2,440.00 |
| Jul-2019 | \$ | 5,090.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5,530.00 |
| Mar-2019 | \$ | 2,765.00 |
| May-2019 | \$ | 4,525.00 |
| Nov-2019 | \$ | 3,510.00 |
| Oct-2019 | | 4,590.00 |
| Sep-2019 | \$ | 4,815.00 |
| | | |
| Apr-2019 | \$ | 3,750.00 |
| Aug-2019 | \$: | 4,930.00 |
| Dec-2019 | \$ | 3,205.00 |
| Feb-2019 | \$ | 2,770.00 |
| Jan-2019 | \$ | 1,745.00 |
| Jul-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,755.00 |
| Jun-2019 | \$ | 5,235.00 |
| Mar-2019 | \$ | 2,335.00 |
| May-2019 | \$ | 4,440.00 |
| Nov-2019 | \$ | 3,600.00 |
| Oct-2019 | \$ | 4,670.00 |
| Sep-2019 | * | 4,565.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Apr-2019 | \$ | 3,300.00 |
| Aug-2019 | \$ | 3,856.00 |
| Dec-2019 | Š | 2,012.00 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,308.00 |
| Jan-2019 | Š | 1,568.00 |
| Jul-2019 | ÷ | 3,512.00 |
| Jun-2019 | ب د | 3,896.00 |
| Mar-2019 | ÷ | 1,996.00 |
| May-2019 | ÷ | 3,320.00 |
| Nov-2019 | ې د | 2,732.00 |
| Oct-2019 | Ş | |
| | \$ ¢ | 3,428.00 |
| Sep-2019 | \$\$ | 3,564.00 |
| Apr. 2010 | | 2.015.00 |
| Apr-2019 | \$ | 3,815.00 |
| Aug-2019 Dec-2019 | \$ | 4,890.00 |
| | \$ | 2,615.00 |
| Feb-2019 | \$ | 2,530.00 |
| Jan-2019 | \$ | 2,095.00 |
| Jul-2019 | \$ | 4,365.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,850.00 |
| Mar-2019 | \$ | 2,375.00 |
| May-2019 | \$ | 3,770.00 |
| Nov-2019 | \$ | 2,905.00 |
| Oct-2019 | \$ | 3,845.00 |
| Sep-2019 | \$ | 4,105.00 |
| Av. 2010 | | 1 104 00 |
| Apr-2019 | \$ | 1,104.00 |
| Aug-2019 | \$ | 1,504.00 |
| Feb-2019 | \$ | 824.00 |
| Jan-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,988.00 |
| Jul-2019 | \$ | 1,804.00 |
| Jun-2019 | \$ | 1,508.00 |
| May-2019 | \$ | 1,224.00 |
| Nov-2019 | \$ | 1,264.00 |
| Oct-2019 | \$ | 3,104.00 |
| Sep-2019 | \$ | 1,628.00 |
| Apr-2019 | \$ | 3,404.31 |
| Aug-2019 | | 6,808.62 |
| Dec-2019 | \$ | 4,226.04 |
| Feb-2019 | č | 2,699.97 |
| Jan-2019 | ζ, | 2,582.58 |
| Jul-2019 | ÷ | 5,869.50 |
| Jun-2019 | ¢ | 6,573.84 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,286.92 |
| | ې خ | 6,104.28 |
| May-2019 | ې خ | 5,634.72 |
| Nov-2019 | ş ç | |
| Oct-2019 | ÷ | 5,869.50 |
| Apr-2019 | \$ | 8,792.09 |
| Aug-2019 | \$ \$ | 16,213.55 |
| Dec-2019 | \$ | 12,402.53 |
| 500 2013 | ~ | 12,402.33 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------------|
| Feb-2019 | \$ | 6,294.42 |
| Jan-2019 | \$ | 8,328.95 |
| Jul-2019 | \$ | 19,924.28 |
| Mar-2019 | \$ | 8,858.95 |
| May-2019 | \$ | 29,618.98 |
| Nov-2019 | \$ | 13,672.87 |
| Oct-2019 | \$ | 16,648.14 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 17,216.45 |
| | | |
| Apr-2019 | \$ | 1,878.24 |
| Aug-2019 | \$ | 3,873.87 |
| Dec-2019 | \$ | 2,699.97 |
| Feb-2019 | \$ | 1,760.85 |
| Jan-2019 | \$ | 1,878.24 |
| Jul-2019 | \$ | 4,343.43 |
| Mar-2019 | \$ | 2,347.80 |
| May-2019 | \$ | 7,512.96 |
| Nov-2019 | \$ | 2,934.75 |
| Oct-2019 | * * * * * * * * * * * | 3,169.53 |
| Sep-2019 | \$ | 4,226.04 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,526.07 |
| Aug-2019 | \$ | 3,756.48 |
| Dec-2019 | \$ | 2,347.80 |
| Feb-2019 | \$ | 1,526.07 |
| Jan-2019 | \$ | 1,760.85 |
| Jul-2019 | \$ | 3,286.92 |
| Jun-2019 | \$ | 1,643.46 |
| Mar-2019 | \$ | 1,995.63 |
| May-2019 | \$ | 3,052.14 |
| Nov-2019 | \$ | 2,465.19 |
| Oct-2019 | \$ | 3,052.14 |
| Sep-2019 | \$ | 3,052.14 |
| | | 2 400 00 |
| Apr-2019 | \$ \$ \$ \$ | 2,400.00 |
| Aug-2019 | \$ * | 3,228.00 |
| Dec-2019 | \$ | 1,860.00 |
| Feb-2019 | \$ \$ | 1,952.00 |
| Jan-2019 | 4 | 1,584.00 |
| Jul-2019 | \$ \$ \$ \$ \$ | 2,916.00 |
| Mar-2019 | > . | 1,512.00 |
| May-2019 | \$ | 4,820.00 |
| Nov-2019 | \$ | 2,080.00 |
| Oct-2019 | \$ | 2,532.00 |
| Sep-2019 | \$ | 2,796.00 |
| Apr-2019 | ¢ | 2,445.00 |
| Aug-2019 | č | 2,970.00 |
| Dec-2019 | č | 1,764.00 |
| Feb-2019 | č | 1,869.00 |
| Jan-2019 | č | 1,584.00 |
| Jul-2019 | \$ \$ \$ \$ \$ | 2,658.00 |
| Mar-2019 | č | 1,608.00 |
| THUI EULS | 7 | 1,000.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------------|
| May-2019 | \$ | 5,463.00 |
| Nov-2019 | \$ \$ | 2,025.00 |
| Oct-2019 | \$ | 2,559.00 |
| Sep-2019 | \$ | 2,535.00 |
| | | |
| Apr-2019 | \$ | 856.00 |
| Aug-2019 | \$ | 1,440.00 |
| Dec-2019 | \$ | 1,044.00 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 880.00 |
| Jan-2019 | \$ | 840.00 |
| Jul-2019 | \$ | 1,560.00 |
| Mar-2019 | \$ | 1,088.00 |
| May-2019 | \$ | 2,588.00 |
| Nov-2019 | \$ | 1,024.00 |
| Oct-2019 | \$ | 1,376.00 |
| Sep-2019 | \$ | 1,408.00 |
| | | |
| Apr-2019 | \$ | 704.34 |
| Aug-2019 | \$ | 1,995.63 |
| Dec-2019 | \$ | 1,056.51 |
| Feb-2019 | \$ | 586.95 |
| Jan-2019 | \$ | 469.56 |
| Jul-2019 | , \$ | 1,643.46 |
| Mar-2019 | , \$ | 821.73 |
| May-2019 | \$ | 3,286.92 |
| Nov-2019 | , \$ | 1,173.90 |
| Oct-2019 | \$ | 1,643.46 |
| Sep-2019 | * * * * * * * * * * * | 1,995.63 |
| Ann 2010 | ć | 587.44 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,248.31 |
| Aug-2019 | \$ \$ | 660.87 |
| Dec-2019 | ş ç | 440.58 |
| Feb-2019 | \$ \$ | |
| Jan-2019 | \$ | 440.58 |
| Jul-2019 | \$ \$ | 1,101.45 1,248.31 |
| Jun-2019 | \$ | |
| Mar-2019 | \$ | 587.44 |
| May-2019 | \$ \$ | 1,028.02 |
| Nov-2019 | | 807.73 |
| Oct-2019 | \$ | 954.59 |
| Sep-2019 | \$ | 1,321.74 |
| Apr-2019 | <u>, </u> | 3,036.00 |
| Apr-2019 Aug-2019 | ş ¢ | 3,896.00 |
| Dec-2019 | ÷ | 2,468.00 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,304.00 |
| Jan-2019 | ş e | 1,896.00 |
| Jan-2019 Jul-2019 | ې خ | 3,628.00 |
| | ş ¢ | 2,020.00 |
| Mar-2019 | \$ * | |
| May-2019 | \$ * | 7,520.00 |
| Nov-2019 | \$ * | 2,760.00 |
| Oct-2019 | > * | 2,560.00 |
| Sep-2019 | \$ | 3,536.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|----------------------------------|-----------|
| Apr-2019 | \$ | 3,376.00 |
| Aug-2019 | \$ | 4,088.00 |
| Dec-2019 | \$ | 2,484.00 |
| Feb-2019 | , | 2,512.00 |
| Jan-2019 | \$ \$ \$ \$ \$ | 2,120.00 |
| Jul-2019 | ÷ | 3,696.00 |
| Mar-2019 | ÷ | 2,180.00 |
| May-2019 | ÷ | 7,192.00 |
| Nov-2019 | \$ ¢ | 2,712.00 |
| Oct-2019 | | 3,232.00 |
| | \$ \$ | |
| Sep-2019 | - | 3,396.00 |
| A 2010 | | 2 550 00 |
| Apr-2019 | \$ | 2,559.00 |
| Aug-2019 | \$ | 3,237.00 |
| Dec-2019 | \$ | 1,854.00 |
| Feb-2019 | \$ | 1,890.00 |
| Jan-2019 | \$ | 1,578.00 |
| Jul-2019 | \$ | 2,973.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,285.00 |
| Mar-2019 | \$ | 1,683.00 |
| May-2019 | \$ | 2,754.00 |
| Nov-2019 | \$ | 2,109.00 |
| Oct-2019 | \$ | 2,673.00 |
| Sep-2019 | \$ | 2,592.00 |
| Apr-2019 | \$ | _ |
| Aug-2019 | Š | _ |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | _ |
| Feb-2019 | ş | - |
| Jan-2019 | ş | - |
| Jul-2019 | ş | - |
| Jun-2019 | ş ¢ | - |
| Mar-2019 | ş | - |
| | \$ ¢ | - |
| May-2019 | \$ ¢ | - |
| Nov-2019 | \$ | - |
| Oct-2019 | \$ | - |
| Sep-2019 | Ş | - |
| Ann. 2010 | | 2 200 76 |
| Apr-2019 | \$ | 3,309.76 |
| Aug-2019 | \$ | 3,516.62 |
| Dec-2019 | \$ | 1,551.45 |
| Feb-2019 | \$ | 1,241.16 |
| Jan-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 930.87 |
| Jul-2019 | \$ | 2,896.04 |
| Jun-2019 | \$ | 2,689.18 |
| May-2019 | \$ | 2,999.47 |
| Nov-2019 | \$ | 2,172.03 |
| Oct-2019 | \$ | 2,275.46 |
| Sep-2019 | \$ | 2,896.04 |
| | | 20,000,00 |
| Apr-2019 | \$ | 20,009.85 |
| Aug-2019 | \$ | 25,349.80 |
| | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|----------------------------------|----------------------|
| Dec-2019 | \$ | 31,614.10 |
| Feb-2019 | \$ | 24,465.35 |
| an-2019 | \$ | 26,107.90 |
| ul-2019 | \$ | 24,671.50 |
| un-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 49,103.60 |
| Mar-2019 | \$ | 25,196.85 |
| Nov-2019 | \$ | 54,875.80 |
| Sep-2019 | \$ | 24,744.65 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 408.00 |
| Aug-2019 | \$ | 1,228.00 |
| Feb-2019 | \$ | 276.00 |
| an-2019 | \$ | 436.00 |
| ul-2019 | \$ | 624.00 |
| Mar-2019 | \$ | 304.00 |
| May-2019 | \$ | 484.00 |
| Nov-2019 | \$ | 464.00 |
| Oct-2019 | \$ | 1,276.00 |
| Sep-2019 | \$ | 604.00 |
| Apr-2019 | Ċ | 884.00 |
| Aug-2019 | , ć | 2,728.00 |
| Feb-2019 | ş ç | |
| an-2019 | ş ¢ | 580.00 |
| lul-2019 | ş č | 944.00 |
| Mar-2019 | ş ç | 1,420.00 644.00 |
| | ş ¢ | |
| May-2019 Nov-2019 | Ş ¢ | 1,068.00 |
| Nov-2019 Oct-2019 | \$ ¢ | 1,032.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,832.00 1,336.00 |
| PEP-2015 | | 1,330.00 |
| Apr-2019 | \$ | 408.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ | 1,220.00 |
| Feb-2019 | \$ | 268.00 |
| Jan-2019 | \$ | 428.00 |
| Jul-2019 | \$ | 624.00 |
| Mar-2019 | \$ | 296.00 |
| May-2019 | \$ | 1,080.00 |
| Nov-2019 | \$ | 156.00 |
| Oct-2019 | \$ | 476.00 |
| | | |
| Apr-2019 | \$ | 700.00 |
| Aug-2019 | \$ | 1,092.00 |
| Dec-2019 | \$ | 728.00 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 488.00 |
| Jan-2019 | \$ | 556.00 |
| Jul-2019 | \$ | 988.00 |
| Jun-2019 | \$ | 996.00 |
| Mar-2019 | \$ | 696.00 |
| May-2019 | \$ | 1,040.00 |
| Nov-2019 | \$ | 868.00 |
| 0 + 2010 | | |
| Oct-2019 Sep-2019 | \$ | 988.00 992.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|---|-----------|
| Apr-2019 | ţ, | 52,400.00 |
| Aug-2019 | \$ | 44,534.26 |
| Dec-2019 | Š | 40,216.00 |
| Feb-2019 | , \$ | 36,904.00 |
| Jan-2019 | , \$ | 30,368.00 |
| Jul-2019 | , \$ | 24,551.32 |
| Jun-2019 | , \$ | 64,176.00 |
| Mar-2019 | \$ | 33,832.00 |
| May-2019 | , \$ | 57,408.00 |
| Nov-2019 | \$ \$ | 43,916.00 |
| Oct-2019 | \$ | 52,632.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 74,726.96 |
| | | |
| Apr-2019 | \$ | 24,540.00 |
| Aug-2019 | \$ | 29,156.00 |
| Dec-2019 | \$ | 17,724.00 |
| Feb-2019 | \$ | 18,644.00 |
| Jan-2019 | \$ | 14,964.00 |
| Jul-2019 | \$ | 26,716.00 |
| Jun-2019 | \$ | 31,196.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 16,568.00 |
| May-2019 | \$ | 26,620.00 |
| Nov-2019 | \$ | 20,728.00 |
| Oct-2019 | \$ | 26,264.00 |
| Sep-2019 | \$ | 25,596.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,976.00 |
| Aug-2019 | \$ | 3,492.00 |
| Dec-2019 | \$ | 1,292.00 |
| Feb-2019 | \$ | 2,236.00 |
| Jan-2019 | \$ | 1,696.00 |
| Jul-2019 | \$ | 3,284.00 |
| Jun-2019 | \$ | 3,656.00 |
| Mar-2019 | \$ | 1,892.00 |
| May-2019 | \$ | 3,296.00 |
| Nov-2019 | \$ | 2,432.00 |
| Oct-2019 | \$ | 3,264.00 |
| Sep-2019 | \$ | 3,168.00 |
| Apr-2019 | Ċ | |
| Aug-2019 Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - |
| Dec-2019 | ÷ | |
| Feb-2019 | ÷ · | - - |
| Jan-2019 | ÷ | - |
| Jul-2019 | ب د | - |
| Jun-2019 | ٠ خ | - |
| Mar-2019 | ې د | - |
| | ş ¢ | - |
| May-2019 | > * | - |
| Nov-2019 | \$ * | - |
| Oct-2019 | \$ * | - |
| Sep-2019 | Ş | - |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------------|
| Apr-2019 | \$ | 3,072.00 |
| Aug-2019 | \$ | 3,496.00 |
| Dec-2019 | \$ | 2,304.00 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,096.00 |
| Jan-2019 | \$ | 1,836.00 |
| Jul-2019 | \$ | 3,320.00 |
| Jun-2019 | \$ | 3,664.00 |
| Mar-2019 | \$ | 1,928.00 |
| May-2019 | \$ | 3,284.00 |
| Nov-2019 | \$ | 2,496.00 |
| Oct-2019 | \$ | 3,212.00 |
| Sep-2019 | \$ | 3,236.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,212.00 |
| Aug-2019 | \$ | 3,656.00 |
| Dec-2019 | \$ | 2,152.00 |
| Feb-2019 | \$ | 2,224.00 |
| Jan-2019 | \$ | 1,944.00 |
| Jul-2019 | \$ | 3,264.00 |
| Jun-2019 | \$ | 3,936.00 |
| Mar-2019 | \$ | 2,040.00 |
| May-2019 | \$ | 3,372.00 |
| Nov-2019 | \$ | 2,576.00 |
| Oct-2019 | \$ | 3,280.00 |
| Sep-2019 | \$ | 3,320.00 |
| Apr-2019 | \$ | 3,172.00 |
| Aug-2019 | Š | 3,872.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,264.00 |
| Feb-2019 | Š | 2,376.00 |
| Jan-2019 | Š | 1,920.00 |
| Jul-2019 | Š | 3,448.00 |
| Jun-2019 | ζ΄ | 4,012.00 |
| Mar-2019 | Š | 1,980.00 |
| May-2019 | , | 3,432.00 |
| Nov-2019 | , , | 2,536.00 |
| Oct-2019 | | 3,160.00 |
| Sep-2019 | \$ \$ | 3,148.00 |
| 3cp 2013 | Ψ | 3,110.00 |
| Apr-2019 | \$ | 234.78 |
| Aug-2019 | \$ | 469.56 |
| Dec-2019 | \$ | 117.39 |
| Feb-2019 | \$ | 234.78 |
| Jan-2019 | \$ | 117.39 |
| Jul-2019 | \$ | 352.17 |
| Jun-2019 | \$ | 352.17 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 117.39 |
| May-2019 | \$ | 352.17 |
| , Nov-2019 | \$ | 234.78 |
| Oct-2019 | \$ | 352.17 |
| Sep-2019 | \$ | 352.17 |
| | | 200 522 5 |
| Apr-2019 | \$ | 288,520.54 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|------------|
| Aug-2019 | \$ | 206,870.36 |
| Dec-2019 | \$ \$ | 301,765.82 |
| Feb-2019 | \$ | 343,229.34 |
| Jan-2019 | \$ \$ \$ \$ \$ | 300,865.76 |
| Jul-2019 | \$ | 733,283.10 |
| Jun-2019 | \$ | 871.40 |
| Mar-2019 | \$ | 381,237.50 |
| May-2019 | \$ | 331,741.98 |
| Nov-2019 | \$ | 583,489.44 |
| Sep-2019 | \$ | 383,154.58 |
| | • | |
| Apr-2019 | \$ | 5,220.00 |
| Aug-2019 | \$ | 10,380.00 |
| Feb-2019 | \$ | 8,085.00 |
| Jan-2019 | \$ | 2,160.00 |
| Jul-2019 | \$ | 16,170.00 |
| Jun-2019 | \$ | 8,865.00 |
| Mar-2019 | \$ | 12,420.00 |
| May-2019 | \$ | 13,515.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 10,605.00 |
| Sep-2019 | \$ | 20,250.00 |
| | · · · · · · · · · · · · · · · · · · · | |
| Apr-2019 | \$ | 234.78 |
| Aug-2019 | \$ | 469.56 |
| Dec-2019 | , \$ | 234.78 |
| Feb-2019 | Ś | 117.39 |
| Jan-2019 | Ś | 117.39 |
| Jul-2019 | \$ | 469.56 |
| Jun-2019 | * * * * * * * * * * * * | 352.17 |
| Mar-2019 | Ś | 234.78 |
| May-2019 | Š | 352.17 |
| Nov-2019 | ζ, | 352.17 |
| Oct-2019 | \$ | 352.17 |
| Sep-2019 | \$ | 117.39 |
| | | |
| Apr-2019 | \$ | 234.78 |
| Aug-2019 | Ś | 469.56 |
| Dec-2019 | \$ | 352.17 |
| Feb-2019 | \$ \$ \$ \$ | 234.78 |
| Jan-2019 | | 234.78 |
| Jul-2019 | , \$ | 352.17 |
| Jun-2019 | \$ | 469.56 |
| Mar-2019 | , \$ | 234.78 |
| May-2019 | Š | 352.17 |
| Nov-2019 | Š | 234.78 |
| Oct-2019 | Š | 469.56 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 352.17 |
| | | 002.17 |
| Apr-2019 | \$ | 3,168.00 |
| Aug-2019 | \$ | 3,952.00 |
| Dec-2019 | \$ | 2,292.00 |
| Feb-2019 | , \$ | 2,432.00 |
| Jan-2019 | \$ \$ \$ \$ \$ | 1,980.00 |
| | ₹ | _,===.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| Jul-2019 | \$ | 3,532.00 |
| Jun-2019 | \$ | 3,876.00 |
| Mar-2019 | \$ | 2,024.00 |
| May-2019 | \$ \$ \$ \$ \$ | 3,380.00 |
| Nov-2019 | \$ | 2,556.00 |
| Oct-2019 | \$ | 3,280.00 |
| Sep-2019 | \$ | 3,428.00 |
| | | |
| Apr-2019 | \$ | 591.00 |
| Aug-2019 | \$ | 945.00 |
| Dec-2019 | \$ | 732.00 |
| Feb-2019 | \$ | 585.00 |
| Jan-2019 | \$ | 666.00 |
| Jul-2019 | \$ | 1,233.00 |
| Jun-2019 | \$ | 1,008.00 |
| Mar-2019 | \$ | 771.00 |
| May-2019 | \$ | 948.00 |
| Nov-2019 | \$ | 909.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 969.00 |
| Sep-2019 | \$ | 1,101.00 |
| Apr-2019 | • | 3,385.00 |
| Aug-2019 | č | 4,055.00 |
| Dec-2019 | , | 2,395.00 |
| Feb-2019 | ٠ • | 2,240.00 |
| Jan-2019 | ć | 2,020.00 |
| Jul-2019 | ÷ | 3,720.00 |
| Jun-2019 | ć | 4,305.00 |
| Mar-2019 | ÷ | 2,175.00 |
| | ş ¢ | 3,680.00 |
| May-2019 Nov-2019 | ş | 2,670.00 |
| Oct-2019 | ې د | |
| | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,330.00 |
| Sep-2019 | Ş | 3,490.00 |
| Apr-2019 | \$ | 1,708.00 |
| Aug-2019 | \$ \$ \$ \$ \$ | 2,196.00 |
| Dec-2019 | \$ | 1,264.00 |
| Feb-2019 | \$ | 1,252.00 |
| Jan-2019 | \$ | 812.00 |
| Jul-2019 | | 2,040.00 |
| Jun-2019 | \$ | 2,232.00 |
| Mar-2019 | \$ | 1,148.00 |
| May-2019 | \$ | 1,888.00 |
| Nov-2019 | \$ | 1,360.00 |
| Oct-2019 | , \$ | 1,796.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ | 1,872.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ | 4,040.00 |
| Aug-2019 | \$ | 4,895.00 |
| Dec-2019 | \$ | 2,860.00 |
| Feb-2019 | \$ | 2,890.00 |
| Jan-2019 | \$ | 2,020.00 |
| Jul-2019 | \$ | 4,475.00 |
| | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|---|----------|
| Jun-2019 | \$ | 5,030.00 |
| Mar-2019 | \$ | 2,590.00 |
| May-2019 | \$ | 3,900.00 |
| Nov-2019 | \$ \$ \$ \$ | 2,950.00 |
| Oct-2019 | \$ | 4,075.00 |
| Sep-2019 | \$ | 4,125.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 432.00 |
| Aug-2019 | \$ | 807.75 |
| Dec-2019 | \$ | 713.25 |
| Feb-2019 | \$ | 533.25 |
| Jan-2019 | \$ | 506.25 |
| Jul-2019 | \$ | 897.75 |
| Jun-2019 | \$ | 884.25 |
| Mar-2019 | \$ | 630.00 |
| May-2019 | , \$ | 740.25 |
| Nov-2019 | Ś | 704.25 |
| Oct-2019 | Š | 704.25 |
| Sep-2019 | \$ | 933.75 |
| | · · · · · · · · · · · · · · · · · · · | |
| Apr-2019 | \$ | 3,320.00 |
| Aug-2019 | Ś | 4,080.00 |
| Dec-2019 | Š | 2,356.00 |
| Feb-2019 | Š | 2,492.00 |
| Jan-2019 | Š | 2,032.00 |
| Jul-2019 | Š | 3,604.00 |
| Jun-2019 | Š | 4,048.00 |
| Mar-2019 | Š | 2,116.00 |
| May-2019 | Š | 3,528.00 |
| Nov-2019 | ÷ | 2,680.00 |
| Oct-2019 | ÷ | 3,488.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,492.00 |
| Зер-2013 | Ą | 3,432.00 |
| Apr-2019 | \$ | 117.39 |
| Aug-2019 | \$ \$ \$ \$ \$ | 117.39 |
| Dec-2019 | Ś | 117.39 |
| Feb-2019 | Š | 117.39 |
| Jul-2019 | Š | 117.39 |
| Jun-2019 | ζ, | 117.39 |
| Nov-2019 | | 117.39 |
| Oct-2019 | , | 117.39 |
| Sep-2019 | \$ \$ \$ | 117.39 |
| 3cp 2013 | Υ | 117.55 |
| Aug-2019 | Ś | 73.43 |
| Dec-2019 | Ś | 73.43 |
| Jan-2019 | \$ | 73.43 |
| Jul-2019 | \$ | 73.43 |
| Jun-2019 | \$ | 73.43 |
| Mar-2019 | Š | 73.43 |
| May-2019 | ξ΄ | 146.86 |
| Nov-2019 | ÷ | 73.43 |
| Oct-2019 | č | 73.43 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 73.43 |
| 3Ch 5013 | Ą | 73.43 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| | | |
| Apr-2019 | \$ \$ | 3,136.00 |
| Aug-2019 | \$ | 3,896.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,224.00 |
| Feb-2019 | \$ | 2,336.00 |
| Jan-2019 | \$ | 1,884.00 |
| Jul-2019 | \$ | 3,452.00 |
| Jun-2019 | \$ | 3,712.00 |
| Mar-2019 | \$ | 1,984.00 |
| May-2019 | \$ | 3,360.00 |
| Nov-2019 | \$ | 2,508.00 |
| Oct-2019 | \$ | 3,284.00 |
| Sep-2019 | \$ | 3,400.00 |
| | | |
| Apr-2019 | \$ | 2,695.00 |
| Aug-2019 | \$ | 1,940.00 |
| Dec-2019 | \$ | 1,560.00 |
| Jan-2019 | \$ | 2,390.00 |
| Jun-2019 | \$ | 1,965.00 |
| Mar-2019 | \$ | 1,175.00 |
| May-2019 | \$ \$ \$ \$ \$ \$ | 1,945.00 |
| Nov-2019 | \$ | 1,980.00 |
| Oct-2019 | \$ | 1,860.00 |
| Sep-2019 | \$ | 1,945.00 |
| | | |
| Apr-2019 | \$ | 1,595.25 |
| Aug-2019 | \$ | 2,045.25 |
| Dec-2019 | \$ | 1,262.25 |
| Feb-2019 | \$ | 1,201.50 |
| Jan-2019 | \$ | 1,082.25 |
| Jul-2019 | \$ | 1,584.00 |
| Jun-2019 | \$ | 2,124.00 |
| Mar-2019 | \$ | 965.25 |
| May-2019 | \$ | 1,824.75 |
| Nov-2019 | \$ | 1,365.75 |
| Oct-2019 | \$ | 1,730.25 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,716.75 |
| | | |
| Apr-2019 | \$ | 1,633.50 |
| Aug-2019 | \$ | 1,887.75 |
| Dec-2019 | \$ | 1,239.75 |
| Feb-2019 | \$ | 1,269.00 |
| Jan-2019 | \$ | 1,044.00 |
| Jul-2019 | \$ | 1,687.50 |
| Jun-2019 | \$ | 2,002.50 |
| Mar-2019 | \$ | 1,093.50 |
| May-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,550.25 |
| Nov-2019 | \$ | 1,381.50 |
| Oct-2019 | \$ | 1,710.00 |
| Sep-2019 | \$ | 1,507.50 |
| | | |
| Aug-2019 | \$ | 206.86 |
| Dec-2019 | \$ | 103.43 |
| | • | - |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|-------------------------------------|----------|
| Jan-2019 | \$ | 103.43 |
| Jul-2019 | \$ | 206.86 |
| Jun-2019 | \$ | 103.43 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ | 103.43 |
| May-2019 | \$ | 206.86 |
| Nov-2019 | \$ | 103.43 |
| Oct-2019 | \$ | 206.86 |
| Apr-2019 | ς | 206.86 |
| Aug-2019 | Š | 310.29 |
| Dec-2019 | Š | 206.86 |
| Feb-2019 | Š | 103.43 |
| Jan-2019 | Š | 206.86 |
| Jul-2019 | Š | 827.44 |
| Jun-2019 | ζ, | 310.29 |
| Mar-2019 | ζ, | 206.86 |
| May-2019 | Š | 206.86 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 310.29 |
| Oct-2019 | \$ | 310.29 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 146.86 |
| Aug-2019 | \$ | 73.43 |
| Dec-2019 | \$ | 73.43 |
| Jan-2019 | \$ | 73.43 |
| Jul-2019 | \$ | 146.86 |
| Jun-2019 | \$ | 73.43 |
| Mar-2019 | \$ | 73.43 |
| May-2019 | \$ | 73.43 |
| Nov-2019 | \$ | 73.43 |
| Oct-2019 | \$ | 146.86 |
| Apr-2019 | \$ | 3,360.00 |
| Aug-2019 | \$ | 4,128.00 |
| Dec-2019 | \$ | 2,424.00 |
| Feb-2019 | \$ | 2,456.00 |
| Jan-2019 | \$ | 2,028.00 |
| Jul-2019 | \$ | 3,684.00 |
| Jun-2019 | \$ | 4,292.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ | 2,084.00 |
| May-2019 | | 3,588.00 |
| Nov-2019 | \$ | 2,796.00 |
| Oct-2019 | \$ | 3,084.00 |
| Sep-2019 | \$ \$ \$ \$ | 3,576.00 |
| | | |
| Aug-2019 | \$ | 146.86 |
| Dec-2019 | \$ | 73.43 |
| Feb-2019 | \$ | 73.43 |
| Jan-2019 | \$ | 73.43 |
| Jul-2019 | \$ | 146.86 |
| Jun-2019 | \$ | 146.86 |
| Mar-2019 | \$ | 73.43 |
| May-2019 | \$ \$ \$ \$ \$ \$ | 146.86 |
| Nov-2019 | \$ | 146.86 |
| | | |

| interparty and Payment Dates | | REC Cost |
|------------------------------|--|----------|
| 2019 | \$ | 73.43 |
| 2019 | \$ | 73.43 |
| 2019 | \$ | 3,730.00 |
| 2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,530.00 |
| 2019 | \$ | 2,985.00 |
| 2019 | \$ | 2,920.00 |
| 2019 | \$ | 2,275.00 |
| 2019 | Š | 4,185.00 |
| 2019 | \$ | 4,605.00 |
| -2019 | Š | 2,040.00 |
| -2019 | ξ . | 4,105.00 |
| -2019 | Š | 3,240.00 |
| 2019 | ζ , | 3,720.00 |
| 2019 | \$ | 4,055.00 |
| 2013 | Ţ | 4,033.00 |
| 2019 | \$ | 3,212.00 |
| -2019 | \$ | 4,068.00 |
| -2019 | \$ | 2,584.00 |
| -2019 | \$ | 2,512.00 |
| 2019 | \$ | 2,088.00 |
| 2019 | \$ | 3,780.00 |
| 2019 | \$ | 4,112.00 |
| -2019 | \$ | 2,108.00 |
| <i>r</i> -2019 | \$ | 3,464.00 |
| -2019 | \$ | 2,896.00 |
| 2019 | Ś | 3,100.00 |
| -2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,588.00 |
| | | |
| -2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,892.25 |
| -2019 | \$ | 2,146.50 |
| -2019 | \$ | 1,388.25 |
| -2019 | \$ | 1,381.50 |
| 2019 | \$ | 1,102.50 |
| 2019 | \$ | 2,000.25 |
| 2019 | \$ | 2,286.00 |
| ⁻ -2019 | \$ | 1,237.50 |
| y-2019 | \$ | 1,986.7 |
| -2019 | \$ | 1,554.7 |
| -2019 | \$ | 1,741.50 |
| -2019 | \$ \$ | 1,908.00 |
| | | 2 700 0 |
| -2019 | \$ * | 3,790.00 |
| -2019 | \$ \$ | 4,020.00 |
| -2019 | \$ * | 2,830.00 |
| -2019 | \$ 2 | 2,840.00 |
| 2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,930.00 |
| 2019 | \$ | 4,150.0 |
| -2019 | \$ | 4,605.0 |
| r-2019 | \$ | 2,425.0 |
| y-2019 | \$ | 3,775.0 |
| <i>-</i> 2019 | \$ \$ | 3,055.0 |
| -2019 | | 3,855.0 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Sep-2019 | \$ | 3,975.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,880.00 |
| Aug-2019 | \$ | 3,585.00 |
| Dec-2019 | \$ | 2,900.00 |
| Feb-2019 | \$ | 2,865.00 |
| Jan-2019 | \$ | 2,000.00 |
| Jul-2019 | \$ | 4,640.00 |
| Jun-2019 | \$ | 2,630.00 |
| Mar-2019 | \$ | 2,470.00 |
| May-2019 | \$ | 3,725.00 |
| Nov-2019 | \$ | 2,855.00 |
| Oct-2019 | \$ | 4,210.00 |
| Sep-2019 | \$\$ | 4,210.00 |
| Apr-2019 | \$ | 19,998.40 |
| Aug-2019 | \$ | 23,536.40 |
| Dec-2019 | \$ | 14,714.60 |
| Feb-2019 | ζ, | 14,534.80 |
| Jan-2019 | \$ | 10,515.40 |
| Jul-2019 | \$ | 22,463.40 |
| Jun-2019 | \$ | 24,400.60 |
| Mar-2019 | Š | 12,423.60 |
| May-2019 | Š | 20,810.40 |
| Nov-2019 | Š | 16,437.20 |
| Oct-2019 | Š | 21,773.20 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 21,001.80 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 3,252.00 |
| Aug-2019 | \$ | 4,096.00 |
| Dec-2019 | \$ | 2,368.00 |
| Feb-2019 | \$ | 2,436.00 |
| Jan-2019 | \$ | 1,768.00 |
| Jul-2019 | \$ | 3,732.00 |
| Jun-2019 | \$ | 4,200.00 |
| Mar-2019 | \$ | 2,132.00 |
| May-2019 | \$ | 3,504.00 |
| Nov-2019 | \$ | 2,628.00 |
| Oct-2019 | \$ | 3,364.00 |
| Sep-2019 | \$ | 3,632.00 |
| Apr-2019 | ς . | 15,831.75 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 14,929.82 |
| Dec-2019 | Š | 12,262.41 |
| Feb-2019 | \$ | 16,465.02 |
| Jan-2019 | , | 16,788.92 |
| Jul-2019 | , | 13,682.47 |
| Jun-2019 | , | 14,507.64 |
| Mar-2019 | , | 14,354.12 |
| May-2019 | , | 13,663.28 |
| Nov-2019 | ζ. | 12,185.65 |
| Oct-2019 | , | 13,740.04 |
| Sep-2019 | , | 15,275.24 |
| och 2013 | Y | 13,2,3.24 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------------|
| Apr-2019 | <u> </u> | 4,135.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5,470.00 |
| Dec-2019 | ζ, | 2,855.00 |
| Feb-2019 | ξ . | 3,150.00 |
| Jan-2019 | ς , | 2,655.00 |
| Jul-2019 | ξ, | 4,755.00 |
| Jun-2019 | , | 5,410.00 |
| Mar-2019 | , | 2,705.00 |
| May-2019 | Š | 4,180.00 |
| Nov-2019 | ζ, | 3,430.00 |
| Oct-2019 | ς , | 4,645.00 |
| Sep-2019 | \$ | 4,355.00 |
| 3CP 2013 | Y | 1,555.00 |
| Apr-2019 | \$ | 4,015.00 |
| Aug-2019 | , S | 4,280.00 |
| Dec-2019 | , \$ | 2,875.00 |
| Feb-2019 | , \$ | 3,040.00 |
| Jan-2019 | , \$ | 2,480.00 |
| Jul-2019 | , \$ | 4,460.00 |
| Jun-2019 | , \$ | 5,130.00 |
| Mar-2019 | \$ | 2,570.00 |
| May-2019 | Š | 4,385.00 |
| Nov-2019 | \$ | 3,150.00 |
| Oct-2019 | Š | 3,910.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,630.00 |
| | | |
| Apr-2019 | * * * * * * * * * * * | 3,120.00 |
| Aug-2019 | \$ | 3,920.00 |
| Dec-2019 | \$ | 2,175.00 |
| Feb-2019 | \$ | 2,270.00 |
| Jan-2019 | \$ | 1,700.00 |
| Jul-2019 | \$ | 3,555.00 |
| Jun-2019 | \$ | 3,975.00 |
| Mar-2019 | \$ | 1,730.00 |
| May-2019 | \$ | 3,220.00 |
| Nov-2019 | \$ | 2,535.00 |
| Oct-2019 | \$ | 3,255.00 |
| Sep-2019 | \$ | 3,485.00 |
| | | 2 240 00 |
| Apr-2019 | \$ | 3,240.00 |
| Aug-2019 | \$ | 4,200.00 |
| Dec-2019 | \$ | 2,275.00 |
| Feb-2019 | > | 1,930.00 |
| Jan-2019 | > * | 1,760.00 3,715.00 |
| Jul-2019 | > * | |
| Jun-2019 | > * | 4,265.00 |
| Mar-2019 | \$ * | 2,020.00 |
| May-2019 | \$ \$ | 3,535.00 |
| Nov-2019 | \$ \$ | 2,585.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,375.00 |
| Sep-2019 | <u> </u> | 3,625.00 |

| Apr-2019 \$ 3,348.00 Aug-2019 \$ 4,296.00 Dec-2019 \$ 2,556.00 Feb-2019 \$ 1,756.00 Jan-2019 \$ 1,756.00 Jul-2019 \$ 3,680.00 Jun-2019 \$ 3,568.00 May-2019 \$ 3,568.00 Nov-2019 \$ 3,568.00 Nov-2019 \$ 2,720.00 Oct-2019 \$ 3,668.00 Sep-2019 \$ 3,680.00 Apr-2019 \$ 3,680.00 Apr-2019 \$ 7,200.00 Aug-2019 \$ 3,680.00 Apr-2019 \$ 7,200.00 Aug-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,676.00 Jun-2019 \$ 1,676.00 Jun-2019 \$ 1,500.00 May-2019 \$ 1,328.00 Oct-2019 \$ 1,328.00 \$ 1,416.00 \$ 1,416.00 <th>Counterparty and Payment Dates</th> <th></th> <th>REC Cost</th> | Counterparty and Payment Dates | | REC Cost |
|---|--------------------------------|---------------------------------------|-------------|
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Apr-2019 | \$ | 3,348.00 |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Aug-2019 | \$ | 4,296.00 |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Dec-2019 | \$ | |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Feb-2019 | \$ | 2,292.00 |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Jan-2019 | \$ | |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Jul-2019 | \$ | 3,680.00 |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Jun-2019 | \$ | 3,820.00 |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Mar-2019 | \$ | |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | May-2019 | \$ | 3,568.00 |
| Apr-2019 \$ 1,376,00 Dec-2019 \$ 1,376,00 Dec-2019 \$ 1,600,00 Feb-2019 \$ 840,00 Jul-2019 \$ 1,676,00 Jul-2019 \$ 1,676,00 Jul-2019 \$ 1,500,00 Mar-2019 \$ 1,068,00 May-2019 \$ 1,316,00 Oct-2019 \$ 1,316,00 Oct-2019 \$ 1,316,00 Oct-2019 \$ 1,416,00 Sep-2019 \$ 1,624,00 Apr-2019 \$ 352,17 Aug-2019 \$ 352,17 Aug-2019 \$ 117,39 Feb-2019 \$ 117,39 Jun-2019 \$ 124,34,78 Aug-2019 \$ 234,78 Aug-2019 \$ 256,123,36 Aug-2019 \$ 256,123,36 Aug-2019 \$ 328,345,62 Jun-2019 \$ 328, | Nov-2019 | \$ | |
| Apr-2019 \$ 1,376.00 Dec-2019 \$ 1,376.00 Dec-2019 \$ 1,600.00 Feb-2019 \$ 840.00 Jul-2019 \$ 752.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,676.00 Jul-2019 \$ 1,068.00 Mar-2019 \$ 1,068.00 Mar-2019 \$ 1,316.00 Oct-2019 \$ 1,316.00 Oct-2019 \$ 1,416.00 Sep-2019 \$ 1,416.00 Sep-2019 \$ 352.17 Aug-2019 \$ 352.17 Aug-2019 \$ 117.39 Feb-2019 \$ 117.39 Feb-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 117.39 Jun-2019 \$ 124.78 May-2019 \$ 234.78 Sep-2019 \$ 117.39 Oct-2019 \$ 255,123.36 Aug-2019 \$ 255,123.36 Au | Oct-2019 | \$ | 3,460.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | Sep-2019 | \$ | 3,840.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | | |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | Apr-2019 | \$ | 720.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | 1,376.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | 1,160.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | Feb-2019 | \$ | 840.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | Jan-2019 | \$ | 752.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | 1,676.00 |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | | \$ | |
| Sep-2019 \$ 1,624.00 Apr-2019 \$ 352.17 Aug-2019 \$ 234.78 Dec-2019 \$ 117.39 Feb-2019 \$ 117.39 Jan-2019 \$ 117.39 Jul-2019 \$ 234.78 May-2019 \$ 234.78 Nov-2019 \$ 117.39 Oct-2019 \$ 234.78 Sep-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 256,123.36 Aug-2019 \$ 308,038.03 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 399,917.94 May-2019 \$ 257,594.74 Oct-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 1,00.00 | Oct-2019 | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | <u>_</u> | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Sep-2019 \$ 117.39 Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | \$ | |
| Apr-2019 \$ 256,123.36 Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 399,917.94 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 | | | |
| Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | Sep-2019 | \$ | 117.39 |
| Aug-2019 \$ 199,175.91 Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | Apr-2019 | \$ | 256,123.36 |
| Dec-2019 \$ 245,599.89 Feb-2019 \$ 308,038.03 Jan-2019 \$ 328,345.62 Jul-2019 \$ 285,274.13 Jun-2019 \$ 399,917.94 Mar-2019 \$ 247,817.91 May-2019 \$ 321,128.53 Nov-2019 \$ 257,594.74 Oct-2019 \$ 208,801.91 Sep-2019 \$ 167,049.08 Apr-2019 \$ 1,100.00 | | | |
| Apr-2019 \$ 1,100.00 | | \$ | |
| Apr-2019 \$ 1,100.00 | | \$ | |
| Apr-2019 \$ 1,100.00 | | Š | |
| Apr-2019 \$ 1,100.00 | | Š | |
| Apr-2019 \$ 1,100.00 | | Š | |
| Apr-2019 \$ 1,100.00 | | Š | |
| Apr-2019 \$ 1,100.00 | | Š | |
| Apr-2019 \$ 1,100.00 | | Š | |
| Apr-2019 \$ 1,100.00 | | ζ , | |
| Apr-2019 \$ 1,100.00 | | Š | |
| | | · · · · · · · · · · · · · · · · · · · | 20.,5 (5.00 |
| | Apr-2019 | \$ | |
| | | \$ | 370.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Dec-2019 | \$ | 390.00 |
| Feb-2019 | \$ | 1,245.00 |
| Jan-2019 | \$ | 1,000.00 |
| Jul-2019 | \$ \$ \$ \$ \$ \$ \$ | 660.00 |
| Jun-2019 | \$ | 495.00 |
| Mar-2019 | \$ | 955.00 |
| May-2019 | \$ | 925.00 |
| Nov-2019 | \$ | 170.00 |
| Oct-2019 | \$ | 150.00 |
| Sep-2019 | \$ | 550.00 |
| | | |
| Apr-2019 | \$ | 10,682.49 |
| Aug-2019 | \$ | 16,551.99 |
| Dec-2019 | \$ | 15,965.04 |
| Feb-2019 | \$ | 10,212.93 |
| Jan-2019 | \$ | 6,926.01 |
| Jul-2019 | \$ | 18,430.23 |
| Jun-2019 | Š | 20,660.64 |
| Mar-2019 | Ś | 13,734.63 |
| May-2019 | Ś | 16,904.16 |
| Nov-2019 | \$ | 16,434.60 |
| Oct-2019 | Š | 15,143.31 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 22,656.27 |
| 30,2013 | Y | 22,030.27 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,740.00 |
| Aug-2019 | \$ | 3,315.00 |
| Dec-2019 | \$ | 2,910.00 |
| Feb-2019 | \$ | 2,605.00 |
| Jan-2019 | \$ | 1,660.00 |
| Jul-2019 | \$ | 3,160.00 |
| Jun-2019 | \$ | 3,820.00 |
| Mar-2019 | \$ | 2,570.00 |
| May-2019 | \$ | 3,360.00 |
| Nov-2019 | \$ | 1,890.00 |
| Oct-2019 | \$ | 3,370.00 |
| Sep-2019 | \$ | 3,360.00 |
| | | |
| Apr-2019 | \$ \$ | 10,032.33 |
| Aug-2019 | | 13,202.72 |
| Feb-2019 | \$: | 7,035.66 |
| Jan-2019 | \$ | 17,372.00 |
| Jul-2019 | \$ | 27,664.91 |
| May-2019 | \$ | 23,756.21 |
| Nov-2019 | \$ \$ \$ \$ \$ | 10,075.76 |
| Oct-2019 | \$ | 26,709.45 |
| Apr-2019 | ė | 524.25 |
| Apr-2019 Aug-2019 | \$ \$ \$ \$ \$ | 697.50 |
| | ې د | 573.75 |
| Dec-2019 | ې د | |
| Jan-2019 | > | 918.00 |
| Jul-2019 | > | 825.75 |
| Jun-2019 | > | 726.75 |
| Mar-2019 | \$ | 387.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------------|
| May-2019 | \$ | 580.50 |
| Nov-2019 | \$ | 614.25 |
| Oct-2019 | \$ \$ \$ \$ | 756.00 |
| Sep-2019 | \$ | 720.00 |
| | | : |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,743.75 |
| Aug-2019 | \$ | 1,984.50 |
| Dec-2019 | \$ | 1,413.00 |
| Feb-2019 | \$ | 1,381.50 |
| Jan-2019 | \$ | 1,066.50 |
| Jul-2019 | \$ | 1,854.00 |
| Mar-2019 | \$ | 1,102.50 |
| May-2019 | \$ | 3,951.00 |
| Nov-2019 | \$ | 1,413.00 |
| Oct-2019 | \$ | 1,896.75 |
| Sep-2019 | \$ | 1,887.75 |
| Apr-2019 | ¢ | 3,240.00 |
| Aug-2019 | ې د | 4,460.00 |
| Dec-2019 | Ş ¢ | |
| Feb-2019 | ş ¢ | 2,460.00 |
| | ş ¢ | 2,408.00 |
| Jan-2019 Jul-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,868.00 |
| | \$ ¢ | 3,912.00 |
| Jun-2019 | \$ \$ | 4,332.00 |
| Mar-2019 | \$ | 2,144.00 |
| May-2019 | \$ | 3,352.00 |
| Nov-2019 | \$ * | 2,780.00 |
| Oct-2019 | \$ \$ | 3,612.00 |
| Sep-2019 | Ş | 3,892.00 |
| Apr-2019 | \$ | 3,855.00 |
| Aug-2019 | \$ | 3,945.00 |
| Dec-2019 | \$ | 3,125.00 |
| Feb-2019 | \$ | 2,995.00 |
| Jan-2019 | \$ | 2,165.00 |
| Jul-2019 | \$ | 4,080.00 |
| Jun-2019 | , \$ | 4,550.00 |
| Mar-2019 | \$ | 2,515.00 |
| May-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,125.00 |
| , Nov-2019 | | 3,115.00 |
| Oct-2019 | \$ \$ | 4,165.00 |
| Sep-2019 | \$ | 4,120.00 |
| | | |
| Apr-2019 | \$ | 1,449.00 |
| Aug-2019 | \$ | 1,768.50 |
| Dec-2019 | \$ | 1,689.75 |
| Feb-2019 | \$ | 1,469.25 |
| Jan-2019 | \$ | 1,597.50 |
| Jul-2019 | \$ | 1,532.25 |
| Jun-2019 | \$ | 1,347.75 |
| Mar-2019 | \$ | 780.75 |
| May-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,302.75 |
| Nov-2019 | \$ | 1,723.50 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Oct-2019 | \$ | 1,449.00 |
| Sep-2019 | \$ | 1,748.25 |
| | | |
| Jul-2019 | \$ | 75,000.00 |
| Oct-2019 | \$ | 50,625.00 |
| 2000 | | 1.751.00 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,764.00 |
| Aug-2019 | \$ | 2,047.50 |
| Dec-2019 | \$ | 1,131.75 |
| Feb-2019 | \$ | 1,332.00 |
| Jan-2019 | \$ | 1,068.75 |
| Jul-2019 | \$ | 1,885.50 |
| Jun-2019 | \$ | 2,092.50 |
| Mar-2019 | \$ | 1,109.25 |
| May-2019 | \$ | 1,892.25 |
| Nov-2019 | \$ | 1,422.00 |
| Oct-2019 | \$ | 1,680.75 |
| Sep-2019 | \$ | 1,815.75 |
| Apr-2019 | | 11,673.48 |
| Aug-2019 | ÷ | 14,292.53 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 8,755.11 |
| Feb-2019 | ۶ د | 8,231.30 |
| Jan-2019 | \$ | |
| | Ş | 5,986.79 |
| Jul-2019 | \$ * | 13,244.91 |
| Jun-2019 | \$ | 14,591.85 |
| Mar-2019 | \$ \$ | 7,333.34 |
| May-2019 | \$ \$ | 12,122.46 |
| Nov-2019 | \$ | 9,727.90 |
| Oct-2019 | \$ \$ | 12,646.27 |
| Sep-2019 | \$ | 13,319.74 |
| Apr-2019 | Ś | 7,516.21 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ | 10,041.90 |
| Dec-2019 | Ś | 9,768.03 |
| Feb-2019 | \$ | 6,481.93 |
| Jan-2019 | \$ | 5,885.01 |
| Jul-2019 | \$ | 11,502.54 |
| Jun-2019 | Ś | 13,206.62 |
| Mar-2019 | | 8,459.54 |
| May-2019 | , \$ | 11,106.95 |
| Nov-2019 | , \$ | 10,133.19 |
| Oct-2019 | \$ | 8,855.13 |
| Sep-2019 | \$ \$ \$ \$ | 10,041.90 |
| | | |
| Apr-2019 | \$ | 3,855.00 |
| Aug-2019 | \$ | 4,470.00 |
| Dec-2019 | \$ | 2,665.00 |
| Feb-2019 | \$ | 2,740.00 |
| Jan-2019 | \$ | 2,240.00 |
| Jul-2019 | \$ | 4,295.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ \$ | 4,840.00 |
| Mar-2019 | \$ | 2,430.00 |
| | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------------|
| May-2019 | \$ | 4,240.00 |
| Nov-2019 | \$ | 3,035.00 |
| Oct-2019 | \$ \$ | 3,750.00 |
| Sep-2019 | \$ | 3,790.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,863.77 |
| Aug-2019 | \$ | 4,258.94 |
| Dec-2019 | \$ | 2,716.91 |
| Feb-2019 | \$ | 1,909.18 |
| Jan-2019 | \$ | 1,909.18 |
| Jul-2019 | \$ | 5,433.82 |
| Jun-2019 | \$ | 4,405.80 |
| Mar-2019 | \$ | 2,716.91 |
| May-2019 | \$ | 4,699.52 |
| Nov-2019 | \$ | 3,304.35 |
| Oct-2019 | \$ | 3,744.93 |
| Sep-2019 | \$ | 4,846.38 |
| Apr-2019 | | 1,344.00 |
| Apr-2019 Aug-2019 | \$ | |
| - | \$ | 2,932.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,884.00 |
| Feb-2019 | > | 996.00 |
| Jan-2019 | > | 804.00 |
| Jul-2019 | \$ * | 2,456.00 |
| Jun-2019 | > | 1,404.00 |
| Mar-2019 | \$ * | 832.00 |
| May-2019 | \$ \$ | 1,396.00 |
| Nov-2019 | \$ | 2,112.00 |
| Oct-2019 | \$ \$ | 2,772.00 |
| Sep-2019 | ð | 2,664.00 |
| Apr-2019 | \$ | 3,930.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ | 4,465.00 |
| Dec-2019 | \$ | 3,140.00 |
| Feb-2019 | \$ | 3,100.00 |
| Jan-2019 | \$ | 2,445.00 |
| Jul-2019 | \$ | 4,175.00 |
| Jun-2019 | \$ | 4,580.00 |
| Mar-2019 | \$ | 2,545.00 |
| May-2019 | ▲ | 4,155.00 |
| Nov-2019 | \$ | 3,410.00 |
| Oct-2019 | \$ | 4,235.00 |
| Sep-2019 | \$ \$ \$ \$ | 4,195.00 |
| | | |
| Apr-2019 | \$ | 4,145.00 |
| Aug-2019 | \$ | 5,155.00 |
| Dec-2019 | \$ | 3,145.00 |
| Feb-2019 | \$ | 2,940.00 |
| Jan-2019 | \$ | 2,550.00 |
| Jul-2019 | \$ | 4,660.00 |
| Jun-2019 | \$ | 5,105.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ | 2,610.00 |
| May-2019 | \$ | 4,510.00 |

| Dates and Amounts of P | Payments for | RECs - Calendar | Year 2019 |
|------------------------|--------------|-----------------|-----------|
|------------------------|--------------|-----------------|-----------|

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|----------------------------------|-----------------|
| Nov-2019 | \$ | 3,560.00 |
| Oct-2019 | \$ \$ | 4,610.00 |
| Sep-2019 | \$ | 4,430.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,775.00 |
| Aug-2019 | \$ | 2,190.00 |
| Dec-2019 | \$ | 1,497.50 |
| Feb-2019 | \$ | 1,440.00 |
| Jan-2019 | \$ | 1,085.00 |
| Jul-2019 | \$ | 1,982.50 |
| Jun-2019 | \$ | 2,227.50 |
| Mar-2019 | \$ | 1,220.00 |
| May-2019 | \$ | 1,987.50 |
| Nov-2019 | \$ | 1,655.00 |
| Oct-2019 | \$ | 1,922.50 |
| Sep-2019 | \$ | 1,932.50 |
| | | |
| Apr-2019 | \$ | 957.25 |
| Aug-2019 | \$ | 1,288.00 |
| Dec-2019 | \$ | 817.25 |
| Feb-2019 | \$ | 817.25 |
| Jan-2019 | \$ | 624.75 |
| Jul-2019 | \$ | 1,116.50 |
| Jun-2019 | \$ | 1,127.00 |
| Mar-2019 | \$ | 603.75 |
| May-2019 | \$ | 1,085.00 |
| Nov-2019 | \$ | 806.75 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,057.00 |
| Sep-2019 | \$ | 1,044.75 |
| Apr-2019 | \$ | 3,855.00 |
| Aug-2019 | \$ | 4,040.00 |
| Dec-2019 | \$ | 2,780.00 |
| Feb-2019 | \$ | 2,850.00 |
| Jan-2019 | \$ | 1,755.00 |
| Jul-2019 | \$ | 4,430.00 |
| Jun-2019 | \$ | 4,835.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 2,540.00 |
| May-2019 | \$ | 4,025.00 |
| Nov-2019 | \$ | 2,925.00 |
| Oct-2019 | \$ \$ \$ | 3,960.00 |
| Sep-2019 | \$ | 4,105.00 |
| | | 4.574.00 |
| Aug-2019 | \$ | 1,576.00 |
| Dec-2019 | \$ • | 1,012.00 |
| Feb-2019 | \$ | 904.00 |
| Jan-2019 | \$ | 952.00 |
| Jul-2019 | \$ | 1,508.00 |
| Jun-2019 | \$ | 1,600.00 |
| Mar-2019 | \$ | 1,236.00 |
| May-2019 | \$ | 2,664.00 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,460.00 |
| Oct-2019 | \$ | 1,484.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|---------------------------------------|
| Sep-2019 | \$ | 1,840.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 4,033.77 |
| Aug-2019 | \$ | 14,480.20 |
| Dec-2019 | \$ | 4,240.63 |
| Feb-2019 | \$ | 3,723.48 |
| Jan-2019 | \$ | 7,033.24 |
| Jun-2019 | \$ | 6,722.95 |
| May-2019 | \$ | 11,377.30 |
| Nov-2019 | \$ | 5,068.07 |
| Oct-2019 | \$ | 6,412.66 |
| Sep-2019 | \$ | 7,033.24 |
| | | |
| Aug-2019 | \$ | 3,991.26 |
| Dec-2019 | \$ | 2,113.02 |
| Feb-2019 | \$ | 1,995.63 |
| Jan-2019 | \$ | 1,526.07 |
| Jul-2019 | \$ | 2,347.80 |
| Nov-2019 | \$ | 2,582.58 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 3,404.31 |
| Sep-2019 | \$ | 3,521.70 |
| A 2010 | | E 3E3 00 |
| Aug-2019 | \$ \$ | 5,352.00 |
| Feb-2019 | | 5,441.52 |
| May-2019 | \$ \$ | 8,058.96 |
| Nov-2019 | \$ | 142.72 |
| Apr-2019 | Ś | 3,328.00 |
| Aug-2019 | \$ | 3,700.00 |
| Dec-2019 | \$ | 2,660.00 |
| Feb-2019 | ξ, | 2,604.00 |
| Jan-2019 | \$ | 2,108.00 |
| Jul-2019 | Š | 3,568.00 |
| Jun-2019 | Š | 3,860.00 |
| Mar-2019 | ζ, | 2,072.00 |
| May-2019 | č | 3,524.00 |
| Nov-2019 | č | 2,948.00 |
| Oct-2019 | , | 3,572.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,420.00 |
| | | · · · · · · · · · · · · · · · · · · · |
| Apr-2019 | \$ | 3,975.00 |
| Aug-2019 | \$ | 4,965.00 |
| Dec-2019 | \$ | 2,390.00 |
| Feb-2019 | \$ | 2,870.00 |
| Jan-2019 | \$ | 2,345.00 |
| Jul-2019 | \$ | 4,065.00 |
| Jun-2019 | \$ | 4,915.00 |
| Mar-2019 | \$ | 2,290.00 |
| May-2019 | \$ | 4,250.00 |
| Nov-2019 | Š | 2,770.00 |
| Oct-2019 | Š | 4,395.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,395.00 |
| p | Ÿ | ., |

| Dates and Amounts of | f Payments fo | or RECs - Calendar | · Year 2019 |
|----------------------|---------------|--------------------|-------------|
|----------------------|---------------|--------------------|-------------|

| Counterparty and Payment Dates | | REC Cost |
|---------------------------------------|--|-----------------|
| Apr-2019 | \$ | 3,895.00 |
| Aug-2019 | \$ | 3,685.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,020.00 |
| Feb-2019 | \$ | 2,920.00 |
| Jan-2019 | \$ | 2,170.00 |
| Jul-2019 | \$ | 4,225.00 |
| Jun-2019 | \$ | 4,315.00 |
| Mar-2019 | \$ | 2,435.00 |
| May-2019 | \$ | 4,085.00 |
| Nov-2019 | \$ | 2,880.00 |
| Oct-2019 | \$ | 4,155.00 |
| Sep-2019 | , \$ | 4,005.00 |
| | · · · · · · · · · · · · · · · · · · · | , in the second |
| Apr-2019 | \$ | 788.00 |
| Aug-2019 | \$ | 1,564.00 |
| Dec-2019 | \$ | 1,268.00 |
| Feb-2019 | \$ | 968.00 |
| Jan-2019 | \$ | 936.00 |
| Jul-2019 | \$ | 1,532.00 |
| Jun-2019 | \$ | 1,668.00 |
| Mar-2019 | \$ | 1,120.00 |
| May-2019 | \$ | 1,416.00 |
| Nov-2019 | \$ | 1,340.00 |
| Oct-2019 | \$ | 1,212.00 |
| Sep-2019 | * * * * * * * * * * * * | 1,756.00 |
| | · · · · · · · · · · · · · · · · · · · | <u> </u> |
| Apr-2019 | \$ | 3,729.45 |
| Aug-2019 | \$ | 6,713.01 |
| Dec-2019 | \$ | 5,286.09 |
| Feb-2019 | \$ | 3,950.00 |
| Jan-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,773.32 |
| Jul-2019 | \$ | 6,842.73 |
| Jun-2019 | \$ | 6,842.73 |
| Mar-2019 | \$ | 4,832.07 |
| May-2019 | \$ | 6,550.86 |
| Nov-2019 | \$ | 4,669.92 |
| Oct-2019 | \$ | 5,902.26 |
| Sep-2019 | \$ | 7,004.88 |
| | | |
| Apr-2019 | \$ | 3,780.00 |
| Aug-2019 | \$ | 4,835.00 |
| Dec-2019 | \$ | 2,640.00 |
| Feb-2019 | \$ | 2,580.00 |
| Jan-2019 | \$ | 1,680.00 |
| Jul-2019 | \$ | 4,195.00 |
| Jun-2019 | \$ | 4,800.00 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,405.00 |
| May-2019 | \$ | 4,075.00 |
| Nov-2019 | \$ | 3,070.00 |
| Oct-2019 | \$ | 3,870.00 |
| Sep-2019 | \$ | 4,150.00 |
| | | |
| Apr-2019 | \$ | 1,602.00 |

| Aug. 2019 \$ 1,955.25 Dec. 2019 \$ 1,352.25 Feb. 2019 \$ 1,206.00 Jan-2019 \$ 974.25 Juh-2019 \$ 1,748.25 Juh-2019 \$ 2,002.50 Mar-2019 \$ 1,483.50 Mar-2019 \$ 1,483.50 Cott-2019 \$ 1,453.50 Cott-2019 \$ 1,453.50 Cott-2019 \$ 1,453.50 Sep-2019 \$ 7,752.5 Apr-2019 \$ 3,875. Aug. 2019 \$ 7,875. Dec-2019 \$ 3,875. Aug. 2019 \$ 7,875. Dec-2019 \$ 3,825.00 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 May-2019 \$ 7,025. Apr-2019 \$ 7,025. Apr- | Counterparty and Payment Dates | | REC Cost |
|--|--------------------------------|-----------|----------|
| Dec-2019 \$ 1,352.25 Feb-2019 \$ 1,206.00 Jan-2019 \$ 7974.25 Juh-2019 \$ 1,748.25 Juh-2019 \$ 2,002.50 Mar-2019 \$ 1,001.25 Mary-2019 \$ 1,849.50 Nov-2019 \$ 1,651.50 Sep-2019 \$ 1,651.50 Sep-2019 \$ 787.50 Apr-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,651.50 Jun-2019 \$ 823.50 Jun-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 733.50 Nov-2019 \$ 762.5 Sep-2019 \$ 762.5 Sep-2019 <td< th=""><th>Aug-2019</th><th>\$</th><th>1,955.25</th></td<> | Aug-2019 | \$ | 1,955.25 |
| Feb-2019 \$ 1,206.00 Jan-2019 \$ 72.42.5 Jun-2019 \$ 2,002.50 Mar-2019 \$ 1,600.25 May-2019 \$ 1,849.50 Nov-2019 \$ 1,551.50 Oct-2019 \$ 1,651.50 Sep-2019 \$ 1,757.25 Apr-2019 \$ 3,87.50 Dec-2019 \$ 636.75 Feb-2019 \$ 636.75 Jul-2019 \$ 864.00 Mar-2019 \$ 733.50 Nov-2019 \$ 735.00 Oct-2019 \$ 762.75 Sep-2019 \$ 762.75 Apr-2019 | Dec-2019 | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | Feb-2019 | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | Jan-2019 | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | Mar-2019 | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | | \$ | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | | s · | |
| Apr-2019 \$ 438.75 Aug-2019 \$ 787.50 Dec-2019 \$ 636.75 Feb-2019 \$ 1,012.50 Jul-2019 \$ 823.50 Jul-2019 \$ 864.00 Mar-2019 \$ 864.00 Mar-2019 \$ 869.00 Mar-2019 \$ 738.50 Nov-2019 \$ 708.75 Oct-2019 \$ 778.75 Cct-2019 \$ 778.75 Cct-2019 \$ 778.25 Sep-2019 \$ | | s · | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | Mar-2019 | \$ | 639.00 |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | May-2019 | \$ | 733.50 |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | Nov-2019 | \$ | |
| Apr-2019 \$ 2,792.61 Aug-2019 \$ 5,481.79 Dec-2019 \$ 3,309.76 Feb-2019 \$ 2,275.46 Jan-2019 \$ 2,999.47 Jul-2019 \$ 6,309.23 Jun-2019 \$ 4,654.35 Mar-2019 \$ 3,620.05 May-2019 \$ 3,826.91 Oct-2019 \$ 3,826.91 Oct-2019 \$ 4,861.21 Sep-2019 \$ 4,861.21 Sep-2019 \$ 5,378.36 Apr-2019 \$ 1,759.50 Aug-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,345.50 Feb-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 Jul-2019 \$ 1,107.00 May-2019 \$ 1,143.00 Oct-2019 \$ 1,982.55 Sep-2019 \$ 1,982.55 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | Oct-2019 | \$ | 776.25 |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | Sep-2019 | \$ | 852.75 |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | Apr. 2010 | <u> </u> | 2 702 61 |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | 4 | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | , | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | ž č | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | ć | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | ÷ | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | ė, | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | ٠ خ | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | ş | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ \$ | |
| Apr-2019 \$ 1,759.50 Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 1,919.25 Jun-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,928.25 Sep-2019 \$ 1,928.25 Sep-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 Aug-2019 \$ 3,985.00 | | \$ \$ | |
| Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,440.00 Oct-2019 \$ 1,928.25 Sep-2019 \$ 1,908.00 Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | 3CP 2013 | ¥ | 3,370.30 |
| Aug-2019 \$ 2,144.25 Dec-2019 \$ 1,345.50 Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 2,155.50 Mar-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,440.00 Oct-2019 \$ 1,928.25 Sep-2019 \$ 1,908.00 Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Apr-2019 | \$ | 1,759.50 |
| Feb-2019 \$ 1,379.25 Jan-2019 \$ 1,107.00 Jul-2019 \$ 2,155.50 Jun-2019 \$ 1,143.00 May-2019 \$ 1,894.50 Nov-2019 \$ 1,440.00 Oct-2019 \$ 1,928.25 Sep-2019 \$ 1,908.00 Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Aug-2019 | \$ | 2,144.25 |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Dec-2019 | \$ | 1,345.50 |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Feb-2019 | \$ | 1,379.25 |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Jan-2019 | \$ | 1,107.00 |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Jul-2019 | \$ | |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | Jun-2019 | \$ | |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | | \$ | 1,143.00 |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | | \$ | |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | • | \$ | |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | | \$ | |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 | | \$ | |
| Apr-2019 \$ 3,985.00 Aug-2019 \$ 4,690.00 Dec-2019 \$ 2,810.00 | | | |
| Aug-2019 \$ 4,690.00 Dec-2019 \$ 2,810.00 | | \$ | |
| Dec-2019 \$ 2,810.00 | | \$ | |
| | Dec-2019 | \$ | 2,810.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------------------|
| Feb-2019 | \$ | 2,970.00 |
| Jan-2019 | \$ | 2,335.00 |
| Jul-2019 | \$ | 4,345.00 |
| Jun-2019 | \$ \$ \$ \$ \$ | 4,845.00 |
| Mar-2019 | \$ | 2,560.00 |
| May-2019 | \$ | 4,290.00 |
| Nov-2019 | \$ | 3,315.00 |
| Oct-2019 | \$ | 3,110.00 |
| Sep-2019 | \$ | 3,510.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,308.00 |
| Aug-2019 | \$ | 4,248.00 |
| Dec-2019 | \$ | 2,472.00 |
| Feb-2019 | \$ | 2,548.00 |
| Jan-2019 | \$ | 2,052.00 |
| Jul-2019 | \$ | 3,856.00 |
| Jun-2019 | \$ | 4,228.00 |
| Mar-2019 | \$ | 2,116.00 |
| May-2019 | \$ | 3,584.00 |
| Nov-2019 | \$ | 2,592.00 |
| Oct-2019 | \$ | 3,764.00 |
| Sep-2019 | \$ | 3,716.00 |
| A 2010 | <u> </u> | 2 222 00 |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,332.00 |
| Aug-2019 | \$ | 3,948.00 |
| Dec-2019 | \$ | 2,492.00 |
| Feb-2019 | \$ | 2,612.00 |
| Jan-2019 | \$ | 2,228.00 |
| Jul-2019 | \$ | 3,836.00 |
| Jun-2019 | \$ | 4,364.00 |
| Mar-2019 | \$ | 2,220.00 |
| May-2019 | \$ | 3,388.00 |
| Nov-2019 | \$ | 2,684.00 |
| Oct-2019 | \$ | 3,448.00 |
| Sep-2019 | \$ | 3,532.00 |
| Apr-2019 | \$ | 2,430.00 |
| Aug-2019 | \$ \$ \$ | 2,780.00 |
| Dec-2019 | Š | 1,435.00 |
| Feb-2019 | | 1,770.00 |
| Jan-2019 | ć | 1,190.00 |
| Jul-2019 | , e | 2,660.00 |
| Jun-2019 | ٠ خ | 3,070.00 |
| Mar-2019 | ې د | 1,595.00 |
| | ÷ | |
| May-2019 | ş ¢ | 2,595.00 1,970.00 |
| Nov-2019 | ş ¢ | 2,530.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,430.00 |
| Sep-2019 | Ş | 2,430.00 |
| Apr-2019 | \$ | 3,885.00 |
| Aug-2019 | \$ | 4,360.00 |
| Dec-2019 | \$ \$ \$ \$ | 2,995.00 |
| Feb-2019 | \$ | 2,740.00 |
| | | |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Jan-2019 | \$ | 2,070.00 |
| Jul-2019 | \$ | 4,060.00 |
| Jun-2019 | \$ | 4,520.00 |
| Mar-2019 | \$ | 2,460.00 |
| May-2019 | \$ | 4,065.00 |
| Nov-2019 | \$ | 3,270.00 |
| Oct-2019 | \$ | 4,140.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ | 3,755.00 |
| Apr-2019 | ċ | 3,815.00 |
| Aug-2019 | \$ ¢ | |
| | \$ * | 4,410.00 |
| Dec-2019 | \$ | 2,740.00 |
| Feb-2019 | \$ | 2,830.00 |
| Jan-2019 | \$ | 2,115.00 |
| Jul-2019 | \$ | 4,260.00 |
| Jun-2019 | \$ | 4,625.00 |
| Mar-2019 | \$ | 2,380.00 |
| May-2019 | \$ | 4,040.00 |
| Nov-2019 | \$ | 2,810.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,135.00 |
| Sep-2019 | \$ | 3,985.00 |
| Apr-2019 | \$ | 3,875.00 |
| Aug-2019 | \$ | 4,915.00 |
| Dec-2019 | Š | 2,840.00 |
| Feb-2019 | Ś | 2,815.00 |
| Jan-2019 | Ś | 1,915.00 |
| Jul-2019 | Ś | 4,480.00 |
| Jun-2019 | Ś | 4,990.00 |
| Mar-2019 | Ś | 2,540.00 |
| May-2019 | , \$ | 4,005.00 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,205.00 |
| Oct-2019 | \$ | 4,125.00 |
| Sep-2019 | \$ | 4,320.00 |
| | | |
| Apr-2019 | \$ \$ \$ | 38,315.00 |
| Aug-2019 | \$ | 46,025.00 |
| Dec-2019 | \$ | 92,680.00 |
| Feb-2019 | \$ | 56,565.00 |
| Jan-2019 | \$ | 48,470.00 |
| Jul-2019 | \$ | 54,845.00 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ | 31,205.00 |
| Mar-2019 | \$ | 36,800.00 |
| May-2019 | \$ | 36,440.00 |
| Nov-2019 | \$ | 47,340.00 |
| Sep-2019 | \$ | 53,695.00 |
| Apr-2019 | \$ | 3,104.00 |
| Aug-2019 | \$ \$ \$ \$ \$ | 3,820.00 |
| Dec-2019 | , | 2,288.00 |
| Feb-2019 | ÷ | 2,264.00 |
| Jan-2019 | ÷ | 1,624.00 |
| Jul-2019 | \$ | 3,688.00 |
| Jui-2013 | Ş | 3,000.00 |

| Mar-2019 \$ 2,072.00 May-2019 \$ 3,100.00 Nov-2019 \$ 2,304.00 Oct-2019 \$ 2,924.00 Sep-2019 \$ 3,855.00 Aug-2019 \$ 3,855.00 Aug-2019 \$ 4,885.00 Cet-2019 \$ 4,885.00 Cet-2019 \$ 2,985.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 2,150.00 Jan-2019 \$ 2,150.00 Mar-2019 \$ 3,355.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 3,395.00 Cet-2019 \$ 3,395.00 Cet-2019 \$ 4,240.00 Apr-2019 \$ 5,870.00 Apr-2019 \$ 4,240.00 Apr-2019 \$ 4,240.00 Apr-2019 \$ 5,870.00 Apr-20 | Counterparty and Payment Dates | | REC Cost |
|--|--------------------------------|-----------|-----------|
| Apr-2019 \$ 4,855.00 Dec-2019 \$ 2,985.00 Teb-2019 \$ 3,055.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 3,355.00 Jan-2019 \$ 4,355.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 3,840.00 Mar-2019 \$ 3,840.00 Sep-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,755.00 Apr-2019 \$ 4,910.00 Jan-2019 \$ 4,910.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,450.00 Apr-2019 \$ 2,450.00 Apr-2019 \$ 3,505.00 Apr-20 | Jun-2019 | \$ | 3,980.00 |
| Apr-2019 \$ 4,855.00 Dec-2019 \$ 2,985.00 Teb-2019 \$ 3,055.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 3,355.00 Jan-2019 \$ 4,355.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 3,840.00 Mar-2019 \$ 3,840.00 Sep-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,755.00 Apr-2019 \$ 4,910.00 Jan-2019 \$ 4,910.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,450.00 Apr-2019 \$ 2,450.00 Apr-2019 \$ 3,505.00 Apr-20 | Mar-2019 | \$ | 2,072.00 |
| Apr-2019 \$ 4,855.00 Dec-2019 \$ 2,985.00 Teb-2019 \$ 3,055.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 3,355.00 Jan-2019 \$ 4,355.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 3,840.00 Mar-2019 \$ 3,840.00 Sep-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,755.00 Apr-2019 \$ 4,910.00 Jan-2019 \$ 4,910.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,450.00 Apr-2019 \$ 2,450.00 Apr-2019 \$ 3,505.00 Apr-20 | May-2019 | \$ | 3,100.00 |
| Apr-2019 \$ 4,855.00 Dec-2019 \$ 2,985.00 Teb-2019 \$ 3,055.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 3,355.00 Jan-2019 \$ 4,355.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 3,840.00 Mar-2019 \$ 3,840.00 Sep-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,755.00 Apr-2019 \$ 4,910.00 Jan-2019 \$ 4,910.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,450.00 Apr-2019 \$ 2,450.00 Apr-2019 \$ 3,505.00 Apr-20 | Nov-2019 | \$ | 2,304.00 |
| Apr-2019 \$ 4,855.00 Dec-2019 \$ 2,985.00 Teb-2019 \$ 3,055.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 2,985.00 Jan-2019 \$ 3,355.00 Jan-2019 \$ 4,355.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 4,610.00 Mar-2019 \$ 3,840.00 Mar-2019 \$ 3,840.00 Sep-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,455.00 Apr-2019 \$ 4,755.00 Apr-2019 \$ 4,910.00 Jan-2019 \$ 4,910.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,820.00 Jan-2019 \$ 2,450.00 Apr-2019 \$ 2,450.00 Apr-2019 \$ 3,505.00 Apr-20 | Oct-2019 | \$ | 2,924.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | Sep-2019 | \$ | 3,464.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | | |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | \$ | |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Jul-2019 \$ 33,496.80 Dec-2019 \$ 18,817.80 Feb-2019 \$ 16,543.20 Jul-2019 \$ 37,635.70 Jun-2019 \$ 37,635.70 Jun-2019 \$ 36,395.00 May-2019 \$ 36,395.00 Apr-2019 \$ 3,815.00 Apr-2019 \$ 3,81 | | \$ | |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | \$ | |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | \$ | |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | \$ | |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | \$ | 4,355.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | | \$ | 4,610.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | Mar-2019 | \$ | 2,440.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | May-2019 | \$ | 3,840.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | Nov-2019 | \$ | 3,395.00 |
| Apr-2019 \$ 4,175.00 Dec-2019 \$ 2,2875.00 Feb-2019 \$ 2,2875.00 Jul-2019 \$ 2,450.00 Jul-2019 \$ 3,402.00 Jul-2019 \$ 5,070.00 Mar-2019 \$ 5,070.00 Mar-2019 \$ 2,675.00 May-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Oct-2019 \$ 3,505.00 Apr-2019 \$ 3,2466.00 Sep-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 32,466.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,405.00 Apr-2019 \$ 3,406.00 Apr-2019 \$ 4,406.00 Apr-2019 \$ 4,406.00 | Oct-2019 | \$ | 4,240.00 |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | Sep-2019 | \$ | 4,455.00 |
| Apr-2019 Aug-2019 S Aug-2019 Pec-2019 S S S S S S S S S S S S S S S S S S S | Apr. 2010 | ė | 4 175 00 |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | ė | |
| Apr-2019 Aug-2019 S Aug-2019 Pec-2019 S S S S S S S S S S S S S S S S S S S | | ş ¢ | |
| Apr-2019 Aug-2019 S Aug-2019 Pec-2019 S S S S S S S S S S S S S S S S S S S | | ş | |
| Apr-2019 Aug-2019 S Aug-2019 Pec-2019 S S S S S S S S S S S S S S S S S S S | | Ş | |
| Apr-2019 Aug-2019 S Aug-2019 Pec-2019 S S S S S S S S S S S S S S S S S S S | | \$ | |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | Ş | |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | \$ * | |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | \$ | |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | \$ \$ | |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | \$ \$ | |
| Apr-2019 Aug-2019 S Aug-2019 Peb-2019 S S S S S S S S S S S S S S S S S S S | | \$ * | |
| Aug-2019 \$ 39,496.89 Dec-2019 \$ 18,817.89 Feb-2019 \$ 16,543.20 Jan-2019 \$ 14,289.60 Jul-2019 \$ 37,635.78 Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Sep-2019 | Ş | 4,265.00 |
| Aug-2019 \$ 39,496.89 Dec-2019 \$ 18,817.89 Feb-2019 \$ 16,543.20 Jan-2019 \$ 14,289.60 Jul-2019 \$ 37,635.78 Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Apr-2019 | \$ | 32,466.03 |
| Dec-2019 \$ 18,817.89 Feb-2019 \$ 16,543.20 Jan-2019 \$ 14,289.60 Jul-2019 \$ 37,635.78 Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 3,815.00 Aug-2019 \$ 3,815.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Aug-2019 | \$ | 39,496.89 |
| Jul-2019 \$ 37,635.78 Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 36,188.29 Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Dec-2019 | \$ | 18,817.89 |
| Jul-2019 \$ 37,635.78 Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 36,188.29 Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Feb-2019 | \$ | 16,543.20 |
| Jul-2019 \$ 37,635.78 Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 36,188.29 Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Jan-2019 | \$ | 14,289.66 |
| Jun-2019 \$ 45,493.80 Mar-2019 \$ 19,851.84 May-2019 \$ 36,395.04 Nov-2019 \$ 24,814.80 Oct-2019 \$ 33,913.50 Sep-2019 \$ 36,188.29 Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | Jul-2019 | \$ | 37,635.78 |
| Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | | \$ | |
| Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | | \$ | |
| Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | | \$ | |
| Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | | , \$ | |
| Apr-2019 \$ 3,815.00 Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 | | \$ | |
| Aug-2019\$1,955.00Dec-2019\$2,810.00Feb-2019\$3,095.00Jan-2019\$2,305.00Jul-2019\$4,255.00 | | \$ | 36,188.25 |
| Aug-2019\$1,955.00Dec-2019\$2,810.00Feb-2019\$3,095.00Jan-2019\$2,305.00Jul-2019\$4,255.00 | | | 2.045.00 |
| Aug-2019 \$ 1,955.00 Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 Jun-2019 \$ 4,275.00 | | \$ _ | |
| Dec-2019 \$ 2,810.00 Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 Jun-2019 \$ 4,275.00 | | \$ | |
| Feb-2019 \$ 3,095.00 Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 Jun-2019 \$ 4,275.00 | | \$ | |
| Jan-2019 \$ 2,305.00 Jul-2019 \$ 4,255.00 Jun-2019 \$ 4,275.00 | | \$ | |
| Jul-2019 \$ 4,255.00 Jun-2019 \$ 4,275.00 | | \$ | |
| Jun-2019 \$ 4,275.0 | | \$ | |
| | Jun-2019 | \$ | 4,275.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|----------|
| Mar-2019 | \$ | 2,440.00 |
| May-2019 | \$ | 3,715.00 |
| Nov-2019 | \$ | 3,235.00 |
| Oct-2019 | \$ \$ \$ \$ | 4,145.00 |
| Sep-2019 | \$ | 3,610.00 |
| | | |
| Apr-2019 | \$ | 1,760.85 |
| Aug-2019 | \$ | 3,873.87 |
| Dec-2019 | \$ | 2,347.80 |
| Feb-2019 | \$ | 1,408.68 |
| Jan-2019 | \$ | 1,526.07 |
| Jul-2019 | \$ | 3,991.26 |
| Jun-2019 | \$ | 3,756.48 |
| Mar-2019 | \$ | 1,643.46 |
| May-2019 | \$ | 2,817.36 |
| Nov-2019 | \$ | 2,465.19 |
| Oct-2019 | \$ | 3,639.09 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,639.09 |
| 2023 | <u> </u> | 0,000.00 |
| Apr-2019 | \$ | 4,215.00 |
| Aug-2019 | · \$ | 4,105.00 |
| Dec-2019 | , S | 3,125.00 |
| Feb-2019 | \$ | 3,215.00 |
| Jan-2019 | \$ | 2,570.00 |
| Jul-2019 | Š | 4,110.00 |
| Jun-2019 | ξ. | 4,630.00 |
| Mar-2019 | Š | 2,395.00 |
| May-2019 | Š | 4,385.00 |
| Nov-2019 | Š | 3,650.00 |
| Oct-2019 | ć | 4,495.00 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,305.00 |
| 3ep-2013 | Ý | 4,303.00 |
| Apr-2019 | \$ | 3,316.00 |
| Aug-2019 | \$ \$ \$ \$ \$ | 3,996.00 |
| Dec-2019 | Š | 2,484.00 |
| Feb-2019 | Š | 2,492.00 |
| Jan-2019 | Ś | 1,900.00 |
| Jul-2019 | \$ | 3,680.00 |
| Jun-2019 | \$ | 4,036.00 |
| Mar-2019 | | 2,072.00 |
| May-2019 | ÷ | 3,468.00 |
| Nov-2019 | \$ \$ \$ \$ | 2,792.00 |
| Oct-2019 | ې د | 3,496.00 |
| | ş e | 3,580.00 |
| Sep-2019 | , | 3,380.00 |
| Apr-2019 | ć | 234.78 |
| | ې و | 352.17 |
| Aug-2019 | ş e | 234.78 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ | 234.78 |
| Feb-2019 | \$ * | 234.78 |
| Jan-2019 | > * | |
| Jul-2019 | \$ * | 352.17 |
| Jun-2019 | \$ \$ | 352.17 |
| Mar-2019 | \$ | 234.78 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------------|
| May-2019 | \$ | 234.78 |
| Nov-2019 | \$ | 352.17 |
| Oct-2019 | \$ | 352.17 |
| Sep-2019 | \$ \$ \$ \$ | 352.17 |
| | | |
| Apr-2019 | \$ | 2,999.47 |
| Aug-2019 | \$ | 5,998.94 |
| Dec-2019 | \$ | 4,137.20 |
| Feb-2019 | \$ | 3,102.90 |
| Jan-2019 | \$ | 2,689.18 |
| Jul-2019 | \$ | 6,722.95 |
| Jun-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5,378.36 |
| Mar-2019 | \$ | 4,033.77 |
| May-2019 | \$ | 5,895.51 |
| Nov-2019 | \$ | 4,550.92 |
| Oct-2019 | \$ | 5,481.79 |
| Sep-2019 | \$ | 5,895.51 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 13,731.00 |
| Aug-2019 | \$ | 16,042.50 |
| Dec-2019 | \$ | 9,936.00 |
| Feb-2019 | \$ | 9,936.00 |
| Jan-2019 | \$ | 7,831.50 |
| Jul-2019 | \$ | 14,817.75 |
| Jun-2019 | \$ | 16,077.00 |
| Mar-2019 | \$ | 8,711.25 |
| May-2019 | \$ | 14,766.00 |
| Nov-2019 | \$ | 11,316.00 |
| Oct-2019 | \$ | 14,610.75 |
| Sep-2019 | \$ | 13,472.25 |
| Apr-2019 | Ś | 2,492.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ | 2,968.00 |
| Dec-2019 | ξ . | 1,716.00 |
| Feb-2019 | Š | 1,772.00 |
| Jan-2019 | ξ . | 1,464.00 |
| Jul-2019 | ξ. | 2,756.00 |
| Jun-2019 | Š | 3,056.00 |
| Mar-2019 | ξ΄ | 1,532.00 |
| May-2019 | | 2,652.00 |
| Nov-2019 | Š | 1,904.00 |
| Oct-2019 | ξ. | 2,288.00 |
| Sep-2019 | \$ \$ \$ \$ | 2,536.00 |
| | | 2,000.00 |
| Apr-2019 | \$ | 3,900.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5,020.00 |
| Dec-2019 | \$ | 2,910.00 |
| Feb-2019 | \$ | 2,940.00 |
| Jan-2019 | \$ | 2,280.00 |
| Jul-2019 | \$ | 4,425.00 |
| Jun-2019 | \$ | 5,130.00 |
| Mar-2019 | \$ | 2,545.00 |
| May-2019 | \$ | 4,265.00 |
| • | • | , |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|----------------------------------|-----------------|
| Nov-2019 | \$ | 1,745.00 |
| Oct-2019 | \$ \$ \$ | 4,070.00 |
| Sep-2019 | \$ | 4,055.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,955.00 |
| Aug-2019 | \$ | 4,565.00 |
| Dec-2019 | \$ | 3,005.00 |
| Feb-2019 | \$ | 3,015.00 |
| Jan-2019 | \$ | 2,355.00 |
| Jul-2019 | \$ | 4,415.00 |
| Jun-2019 | \$ | 4,855.00 |
| Mar-2019 | \$ | 2,490.00 |
| May-2019 | \$ | 4,230.00 |
| Nov-2019 | \$ | 3,315.00 |
| Oct-2019 | \$ | 4,310.00 |
| Sep-2019 | \$ | 4,380.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 100,494.24 |
| Aug-2019 | \$ | 89,461.68 |
| Dec-2019 | \$ | 95,912.02 |
| Feb-2019 | \$ | 102,286.80 |
| Jan-2019 | \$ | 99,681.12 |
| Jul-2019 | \$ | 92,030.40 |
| Jun-2019 | \$ | 98,535.36 |
| Mar-2019 | \$ | 91,605.36 |
| May-2019 | \$ | 96,447.12 |
| Nov-2019 | \$ | 99,470.24 |
| Oct-2019 | \$ | 97,011.47 |
| Sep-2019 | \$ | 99,910.02 |
| . 2010 | | 2.176.00 |
| Apr-2019 | \$ \$ \$ \$ | 3,176.00 |
| Aug-2019 | \$ | 3,876.00 |
| Dec-2019 | \$ | 2,136.00 |
| Feb-2019 | | 2,112.00 |
| Jan-2019 | \$ | 1,348.00 |
| Jul-2019 | \$ | 3,684.00 |
| Jun-2019 | \$ | 3,972.00 |
| Mar-2019 | \$ | 1,988.00 |
| May-2019 | \$ | 3,184.00 |
| Nov-2019 | \$ | 2,604.00 |
| Oct-2019 | \$ | 3,408.00 |
| Sep-2019 | \$ | 3,604.00 |
| | | 1 125 00 |
| Apr-2019 | \$ \$ | 1,135.00 |
| Aug-2019 | \$ \$ | 2,000.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,455.00 |
| Feb-2019 | \$ * | 1,080.00 |
| Jan-2019 | \$ ^ | 1,045.00 |
| Jul-2019 | \$ | 2,085.00 |
| Jun-2019 | \$ | 1,875.00 |
| Mar-2019 | \$ | 1,415.00 |
| May-2019 | \$ | 1,625.00 |
| Nov-2019 | \$ | 1,605.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|----------------------------------|----------|
| Oct-2019 | \$ | 1,810.00 |
| Sep-2019 | \$ | 1,845.00 |
| | | |
| Apr-2019 | \$ | 2,310.00 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,890.00 |
| Dec-2019 | \$ | 2,880.00 |
| Feb-2019 | \$ | 2,870.00 |
| Jan-2019 | \$ | 1,940.00 |
| Jul-2019 | \$ | 4,455.00 |
| Jun-2019 | \$ | 4,830.00 |
| Mar-2019 | \$ | 2,530.00 |
| May-2019 | \$ | 3,925.00 |
| Nov-2019 | \$ | 3,265.00 |
| Oct-2019 | \$ | 4,080.00 |
| Sep-2019 | \$ | 4,230.00 |
| | | |
| Apr-2019 | \$ | 3,208.00 |
| Aug-2019 | \$ | 3,992.00 |
| Dec-2019 | \$ | 2,536.00 |
| Feb-2019 | \$ | 2,476.00 |
| Jan-2019 | \$ | 1,872.00 |
| Jul-2019 | \$ | 3,816.00 |
| Jun-2019 | \$ | 4,160.00 |
| Mar-2019 | \$ | 2,060.00 |
| May-2019 | \$ | 3,572.00 |
| Nov-2019 | \$ | 2,820.00 |
| Oct-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,704.00 |
| Sep-2019 | \$ | 3,628.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,244.00 |
| Aug-2019 | \$ | 3,952.00 |
| Dec-2019 | \$ | 2,604.00 |
| Feb-2019 | \$ | 2,448.00 |
| Jan-2019 | \$ | 1,904.00 |
| Jul-2019 | \$ | 3,788.00 |
| Jun-2019 | \$ | 4,232.00 |
| Mar-2019 | \$ | 2,096.00 |
| May-2019 | \$ | 3,608.00 |
| Nov-2019 | \$ | 2,892.00 |
| Oct-2019 | \$ | 3,784.00 |
| Sep-2019 | \$ | 3,656.00 |
| Apr-2019 | \$ | 3,950.00 |
| Aug-2019 | \$ | 4,460.00 |
| Dec-2019 | , \$ | 2,750.00 |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,175.00 |
| Jan-2019 | \$ | 2,395.00 |
| Jul-2019 | Š | 4,370.00 |
| Jun-2019 | Š | 4,815.00 |
| Mar-2019 | Š | 2,555.00 |
| May-2019 | \$ | 4,280.00 |
| Nov-2019 | Š | 3,145.00 |
| Oct-2019 | ζ, | 4,310.00 |
| OC 2013 | 7 | 7,510.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------|
| Sep-2019 | \$ | 4,025.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,030.00 |
| Aug-2019 | \$ | 4,425.00 |
| Dec-2019 | \$ | 3,075.00 |
| Feb-2019 | \$ | 3,020.00 |
| Jan-2019 | \$ | 2,120.00 |
| Jul-2019 | \$ | 3,975.00 |
| Jun-2019 | \$ | 3,130.00 |
| Mar-2019 | \$ | 2,600.00 |
| May-2019 | \$ | 3,520.00 |
| Nov-2019 | \$ | 3,005.00 |
| Oct-2019 | \$ | 3,235.00 |
| Sep-2019 | \$ | 4,055.00 |
| | | |
| Apr-2019 | \$ | 1,762.32 |
| Aug-2019 | \$ | 4,185.51 |
| Dec-2019 | \$ | 2,643.48 |
| Feb-2019 | \$ | 1,762.32 |
| Jan-2019 | \$ | 2,056.04 |
| Jul-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4,258.94 |
| Jun-2019 | \$ | 4,112.08 |
| Mar-2019 | , \$ | 2,496.62 |
| May-2019 | , \$ | 3,451.21 |
| Nov-2019 | Š | 3,230.92 |
| Oct-2019 | Š | 3,818.36 |
| Sep-2019 | \$ | 3,965.22 |
| | · · · · · · · · · · · · · · · · · · · | 5,5 55.11 |
| Apr-2019 | Ś | 1,927.50 |
| Aug-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,735.00 |
| Dec-2019 | Š | 1,522.50 |
| Feb-2019 | Š | 1,280.00 |
| Jan-2019 | Š | 1,182.50 |
| Jul-2019 | Š | 1,757.50 |
| Jun-2019 | ζ, | 2,217.50 |
| Mar-2019 | ξ. | 1,200.00 |
| May-2019 | č | 2,052.50 |
| Nov-2019 | ÷ | 1,655.00 |
| Oct-2019 | \$ | 1,615.00 |
| | \$ | 1,822.50 |
| Sep-2019 | Ş | 1,822.30 |
| Apr-2019 | Ċ | 3,815.00 |
| | \$ * | 2,635.00 |
| Aug-2019 | \$ | |
| Feb-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,905.00 |
| Jan-2019 | \$ * | 2,315.00 |
| Jul-2019 | \$ | 3,120.00 |
| Jun-2019 | \$ | 4,405.00 |
| Mar-2019 | \$ | 2,460.00 |
| May-2019 | \$ | 4,040.00 |
| Nov-2019 | \$ | 1,285.00 |
| Oct-2019 | \$ | 3,930.00 |
| Sep-2019 | \$ | 3,315.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|--|-----------------|
| Apr-2019 | \$ | 3,725.00 |
| Aug-2019 | \$ | 4,630.00 |
| Dec-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,925.00 |
| Feb-2019 | \$ | 2,875.00 |
| Jan-2019 | \$ | 2,330.00 |
| Jul-2019 | \$ | 4,220.00 |
| Jun-2019 | \$ | 4,810.00 |
| Mar-2019 | \$ | 2,500.00 |
| May-2019 | \$ | 4,145.00 |
| Nov-2019 | \$ | 3,150.00 |
| Oct-2019 | \$ | 4,000.00 |
| Sep-2019 | \$ | 3,950.00 |
| | | |
| Apr-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,855.00 |
| Aug-2019 | \$ | 4,590.00 |
| Dec-2019 | \$ | 2,810.00 |
| Feb-2019 | \$ | 2,925.00 |
| Jan-2019 | \$ | 2,425.00 |
| Jul-2019 | \$ | 4,135.00 |
| Jun-2019 | \$ | 4,690.00 |
| Mar-2019 | \$ | 2,480.00 |
| May-2019 | \$ | 4,020.00 |
| Nov-2019 | \$ | 3,025.00 |
| Oct-2019 | \$ | 3,460.00 |
| Sep-2019 | \$ | 3,905.00 |
| Apr-2019 | Ċ | 3,300.00 |
| Aug-2019 | ė, | 4,212.00 |
| Dec-2019 | ٠ خ | 2,396.00 |
| Feb-2019 | , e | 2,512.00 |
| Jan-2019 | , , | 2,048.00 |
| Jul-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,816.00 |
| Jun-2019 | , , | 4,256.00 |
| Mar-2019 | ب د | 2,128.00 |
| | ÷ | 3,500.00 |
| May-2019 | ب د | 2,696.00 |
| Nov-2019 | \$ | 3,472.00 |
| Oct-2019 Sep-2019 | \$ \$ | 3,556.00 |
| 3ep-2019 | | 3,330.00 |
| Apr-2019 | \$ | 620.58 |
| Aug-2019 | \$ | 1,241.16 |
| Dec-2019 | \$ | 620.58 |
| Feb-2019 | \$ | 413.72 |
| Jan-2019 | \$ | 724.01 |
| Jul-2019 | \$ | 1,344.59 |
| Mar-2019 | \$ \$ \$ \$ \$ \$ \$ | 620.58 |
| May-2019 | \$ | 413.72 |
| Nov-2019 | \$ | 827.44 |
| Oct-2019 | \$ | 2,585.75 |
| | | |
| Apr-2019 | \$ \$ \$ | 2,860.00 |
| Aug-2019 | \$ | 4,420.00 |
| Dec-2019 | \$ | 2,800.00 |

| Feb-2019 \$ 2,465.00 Jan-2019 \$ 1,950.00 Jul-2019 \$ 4,020.00 Jun-2019 \$ 2,015.00 May-2019 \$ 3,120.00 Nov-2019 \$ 3,280.00 Nov-2019 \$ 3,785.00 Sep-2019 \$ 3,785.00 Apr-2019 \$ 3,785.00 Apr-2019 \$ 3,852.00 Apr-2019 \$ 3,852.00 Cec-2019 \$ 3,852.00 Feb-2019 \$ 2,288.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jul-2019 \$ 3,488.00 Jul-2019 \$ 3,488.00 Jul-2019 \$ 3,464.00 Nov-2019 \$ 3,464.00 Nov-2019 \$ 3,464.00 Nov-2019 \$ 3,565.00 Cec-2019 \$ 3,464.00 Nov-2019 \$ 3,650.00 Cec-2019 \$ 3,464.00 Nov-2019 \$ 3,650.00 Cec-2019 \$ 3,850.00 Cec-2019 \$ 3,850.00 Cec-2019 \$ 3,850.00 | Counterparty and Payment Dates | | REC Cost |
|--|--------------------------------|---------|----------|
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | Feb-2019 | \$ | 2,465.00 |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | Jan-2019 | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | Jul-2019 | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | Jun-2019 | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,468.00 May-2019 \$ 3,668.00 May-2019 \$ 3,668.00 May-2019 \$ 3,669.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 3,965.00 Aug-2019 \$ 3,965.00 Dec-2019 \$ 3,965.00 Dec-2019 \$ 3,805.00 Dec- | Mar-2019 | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | May-2019 | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Awg-2019 \$ 2,068.00 May-2019 \$ 2,528.00 Awg-2019 \$ 3,464.00 Nov-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 396.50 Aug-2019 \$ 3,180.00 Apr-2019 \$ 3,295.00 Apr-2019 \$ 3,374.00 Oct-2019 \$ 3,374.00 Dec-2019 \$ 3,374.00 | | \$ | |
| Apr-2019 \$ 3,252.00 Aug-2019 \$ 3,852.00 Dec-2019 \$ 2,288.00 Feb-2019 \$ 1,960.00 Jul-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,488.00 Jun-2019 \$ 3,468.00 May-2019 \$ 3,668.00 May-2019 \$ 3,668.00 May-2019 \$ 3,669.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 3,180.00 Apr-2019 \$ 3,965.00 Aug-2019 \$ 3,965.00 Dec-2019 \$ 3,965.00 Dec-2019 \$ 3,805.00 Dec- | Sep-2019 | \$ | |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 428.50 Nov-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jun-2019 \$ 3,800.00 Jul-2019 \$ 4,270.00 Mar-2019 \$ 4,270.00 Mar-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Poct-2019 \$ 3,724.00 Poct-2019 \$ 3,724.00 P | | | |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 428.50 Nov-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jun-2019 \$ 3,800.00 Jul-2019 \$ 4,270.00 Mar-2019 \$ 4,270.00 Mar-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Poct-2019 \$ 3,724.00 Poct-2019 \$ 3,724.00 P | | \$ | |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Aug-2019</td> <td>\$</td> <td>3,852.00</td> | Aug-2019 | \$ | 3,852.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Dec-2019</td> <td>\$</td> <td>2,288.00</td> | Dec-2019 | \$ | 2,288.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Feb-2019</td> <td>\$</td> <td>2,428.00</td> | Feb-2019 | \$ | 2,428.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Jan-2019</td> <td>\$</td> <td>1,960.00</td> | Jan-2019 | \$ | 1,960.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Jul-2019</td> <td>\$</td> <td>3,488.00</td> | Jul-2019 | \$ | 3,488.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Jun-2019</td> <td>\$</td> <td>3,976.00</td> | Jun-2019 | \$ | 3,976.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Mar-2019</td> <td>\$</td> <td>2,068.00</td> | Mar-2019 | \$ | 2,068.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>May-2019</td> <td>\$</td> <td>3,464.00</td> | May-2019 | \$ | 3,464.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Nov-2019</td> <td>\$</td> <td>2,528.00</td> | Nov-2019 | \$ | 2,528.00 |
| Sep-2019 \$ 3,180.00 Apr-2019 \$ 396.50 Aug-2019 \$ 505.00 Dec-2019 \$ 287.00 Feb-2019 \$ 288.50 Jan-2019 \$ 466.50 Jun-2019 \$ 499.50 Mar-2019 \$ 499.50 May-2019 \$ 428.50 Nov-2019 \$ 431.00 Sep-2019 \$ 436.00 Apr-2019 \$ 436.00 Apr-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,980.00 Jan-2019 \$ 2,980.00 Feb-2019 \$ 3,800.00 Jul-2019 \$ 3,800.00 May-2019 \$ 4,270.00 Mar-2019 \$ 3,800.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Apr-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 </td <td>Oct-2019</td> <td>\$</td> <td>2,640.00</td> | Oct-2019 | \$ | 2,640.00 |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | Sep-2019 | \$ | 3,180.00 |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Sep-2019 \$ 436.00 Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Apr-2019 \$ 1,475.00 Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 3,800.00 Mar-2019 \$ 4,270.00 Mar-2019 \$ 1,445.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 Dec-2019 \$ 3,724.00 | | \$ | |
| Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 1,445.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | Sep-2019 | \$ | 436.00 |
| Aug-2019 \$ 3,295.00 Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 1,445.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | Apr-2019 | Š | 1.475.00 |
| Dec-2019 \$ 2,980.00 Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 1,445.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Feb-2019 \$ 2,915.00 Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 1,445.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Jan-2019 \$ 1,960.00 Jul-2019 \$ 3,800.00 Jun-2019 \$ 4,270.00 Mar-2019 \$ 2,525.00 May-2019 \$ 1,445.00 Nov-2019 \$ 3,410.00 Oct-2019 \$ 2,605.00 Sep-2019 \$ 1,675.00 Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | , \$ | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | Š | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 | | \$ | |
| Apr-2019 \$ 3,008.00 Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 Feb-2019 \$ 1,912.00 | | | |
| Aug-2019 \$ 3,724.00 Dec-2019 \$ 2,312.00 Feb-2019 \$ 1,912.00 | | \$ | |
| Dec-2019 \$ 2,312.00 Feb-2019 \$ 1,912.00 | = | \$ | |
| Feb-2019 \$ 1,912.00 | | \$ | |
| | Feb-2019 | \$ | 1,912.00 |

| Counterparty and Payment Dates | | REC Cost |
|--------------------------------|---------------------------------------|-----------------|
| Jan-2019 | \$ | 1,512.00 |
| Jul-2019 | \$ | 3,564.00 |
| Jun-2019 | \$ | 3,932.00 |
| Mar-2019 | \$ \$ \$ \$ \$ | 1,984.00 |
| May-2019 | \$ | 2,860.00 |
| Nov-2019 | \$ | 2,660.00 |
| Oct-2019 | \$ | 3,380.00 |
| Sep-2019 | , \$ | 3,628.00 |
| | | |
| Apr-2019 | \$ | 1,773.00 |
| Aug-2019 | \$ | 1,570.50 |
| Dec-2019 | \$ | 1,271.25 |
| Feb-2019 | \$ | 1,248.75 |
| Jan-2019 | \$ | 861.75 |
| Jul-2019 | \$ | 1,793.25 |
| Jun-2019 | \$ | 1,998.00 |
| Mar-2019 | \$ | 1,091.25 |
| May-2019 | \$ | 1,012.50 |
| , Nov-2019 | \$ | 1,440.00 |
| Oct-2019 | Ś | 1,838.25 |
| Sep-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,662.75 |
| · | · · · · · · · · · · · · · · · · · · · | · |
| Apr-2019 | \$ | 2,577.00 |
| Aug-2019 | \$ | 3,078.00 |
| Dec-2019 | \$ | 1,986.00 |
| Feb-2019 | \$ | 1,956.00 |
| Jan-2019 | \$ | 1,596.00 |
| Jul-2019 | \$ | 2,841.00 |
| Jun-2019 | \$ | 3,141.00 |
| Mar-2019 | \$ | 1,650.00 |
| May-2019 | \$ | 2,805.00 |
| Nov-2019 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,205.00 |
| Oct-2019 | \$ | 2,811.00 |
| Sep-2019 | \$ | 2,706.00 |
| | | |
| Apr-2019 | \$ | 3,348.00 |
| Aug-2019 | \$ | 3,960.00 |
| Dec-2019 | \$ \$ \$ | 2,472.00 |
| Feb-2019 | \$ | 2,420.00 |
| Jan-2019 | \$ | 1,920.00 |
| Jul-2019 | \$ | 3,688.00 |
| Jun-2019 | \$ | 4,076.00 |
| Mar-2019 | \$ \$ \$ | 2,100.00 |
| May-2019 | \$ | 3,616.00 |
| Nov-2019 | \$ | 2,828.00 |
| Oct-2019 | \$ \$ | 3,480.00 |
| Sep-2019 | \$ | 3,424.00 |
| [END CONFIDENTIAL] | * | -, |

Jennings Exhibit No. 2 Page 1 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

| Line No. | Renewable Resource | RECs only | Total Units Note 3 | Cost per Unit | Total Cost | RECs | Total Units | Cost per Unit | Total Cost | RECs |
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Jennings Exhibit No. 2 Page 2 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

| Line No. | Renewable Resource | RECs Total Units only | Cost per Unit | Total Cost | RECs | Total Units Note 3 | Cost per Unit | Total Cost | RECs |
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REDACTED VERSION Jennings Exhibit No. 2 Page 3 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

| Line No. | Renewable Resource | RECs only | Total Units Note 3 | Cost per Unit | Total Cost | RECs | Total Units | Cost per Unit | Total Cost | RECs |
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Jennings Exhibit No. 2 Page 4 of 11 June 9, 2020

REDACTED VERSION

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

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Jennings Exhibit No. 2 Page 5 of 11 June 9, 2020

REDACTED VERSION

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

| Line | Danson Mr. Danson | RECs | Total Units Note 3 | Cost per Unit | Total Cost | DEC. | Total Units | Cost per Unit | Total Cost | RECs |
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Jennings Exhibit No. 2 Page 6 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

| Line No. | Renewable Resource | RECs only | Total Units Note 3 | Cost per Unit | Total Cost | RECs | Total Units Note 3 | Cost per Unit | Total Cost | RECs |
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Jennings Exhibit No. 2 Page 7 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period Billing Period
April 1, 2019 - March 31, 2020 December 1, 2020 - November 30, 2021

RECs Total Units Cost per Total Units Cost per Line Note 3 Note 3 Renewable Resource Unit **Total Cost RECs** RECs No. only **Total Cost** 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210

Jennings Exhibit No. 2 Page 8 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

EMF Period April 1, 2019 - March 31, 2020

| Line No. | Renewable Resource | RECs Total Units only | Cost per Unit | Total Cost | RECs | Total Units | Cost per Unit | Total Cost | RECs |
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REDACTED VERSION

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

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Jennings Exhibit No. 2 Page 10 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

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| 257 | | | | | | | | | ** |
| 257 | Total Units and Cost for Energy and REC purchases | | | | | | | | *** |
| 257 2 58 | Other Incremental Cost (see Jennings Exhibit No. 3 for Incremental | | \$ | 1,494,316 | | | | \$ 1,578,000 | |
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| 257 258 259 260 261 | Other Incremental Cost (see Jennings Exhibit No. 3 for Incremental Billing Period estimated credits for receipts related to contracts (see Jennings Rebate Program (see Jennings Exhibit No. 3 for cost detail) | | 9 9 | 1,011,806 | Note 1 | | | \$ (500,000) \$ 1.958,668 | |
| 257 258 259 260 261 262 | Other Incremental Cost (see Jennings Exhibit No. 3 for Incremental Billing Period estimated credits for receipts related to contracts (see Jennings Rebate Program (see Jennings Exhibit No. 3 for cost detail) Research (see Jennings Exhibit No. 3 for Research cost detail) | | 9 9 9 | - 1,011,806 798,548 | 1 | | | \$ (500,000) \$ 1,958,668 \$ 931,500 | |
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Jennings Exhibit No. 2 Page 11 of 11 June 9, 2020

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251

Compliance Costs

| | | | EMF Period | | | | Billing Period | | | |
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| | | | April 1, 2019 - March 31, 2020 | | | Decen | December 1, 2020 - November 30, 2021 | | | |
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Notes:

Note 1: EMF Period contract receipts are not included in the under/overcollection calculation on Williams Exhibit No. 2, instead they are credited directly to customer class on Williams Exhibit No. 4. Estimated contract receipts are included in Billing Period total other incremental cost as a reduction in REPS charges proposed for the Billing Period.

Note 2: The revenue requirements associated with each of the Company's solar generating facilities were included in total in the Company's most recent base rate case. The Commission accepted DEP's conclusion that the facility costs included in its proposed base rates were prudently incurred and approved recovery through base rates. Annual levelized costs are no longer calculated and reported in this exhibit.

Note 3: Total units refers to MWhs for bundled energy and REC purchases or to RECs for purchases denoted as RECs only.

25

Total Solar Rebate Program Cost

REDACTED VERSION* **EMF Period Billing Period** April 1, 2019 -December 1, 2020 -March 31, 2020 November 30, 2021 Line No. Incremental Cost Worksheet: Labor by activity: 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 **Total Other Incremental Cost** 1,494,316 \$ 1,578,000 \$ Solar Rebate Program Cost Detail (recovery in REPS pursuant to G.S. 62-155(f)): (1) 22 Annual Amortization of Incentives Provided to Customers, plus return on unamortized balance 962,054 \$ 1,850,434 23 Annual Amortization of Program Administrative Labor Costs, plus return on unamortized balance 24 Annual Amortization of Program Administrative Contract Labor & Other Administrative Costs, plus return on unamortized balance

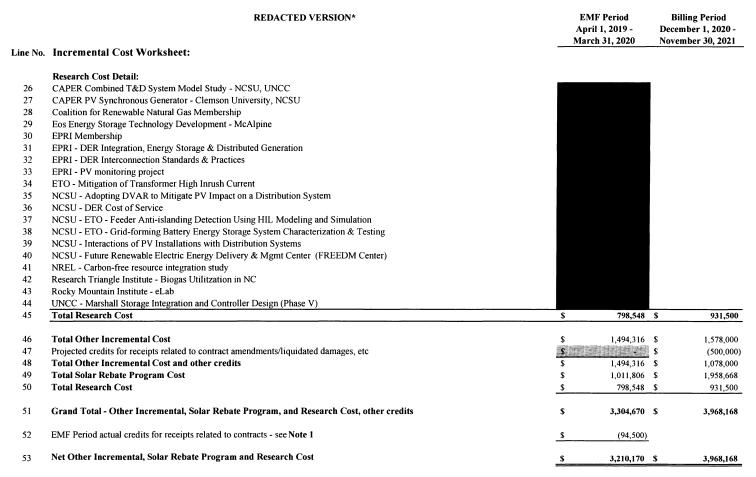
1,011,806 \$

\$

1,958,668

⁽¹⁾ All annual Solar Rebate Program costs reflect amortization of incurred costs over 20 years, including a return on the unamortized balance.

DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1251



Note 1: EMF Period contract receipts are not included in the under/overcollection calculation on Williams Exhibit No. 2, instead they are credited directly to customer class on Williams Exhibit No. 4. Estimated contract receipts are included in Billing Period total other incremental cost as a reduction in REPS charges proposed for the Billing Period.

JENNINGS CONFIDENTIAL EXHIBIT NO. 4 DOCKET NO. E-2, SUB 1251

CONFIDENTIAL – FILED UNDER SEAL



Development and Demonstration of a 40kW Photovoltaic Synchronous Generator (PVSG)

Prepared by:

Dr. Alex Huang (PI), UT Austin
Dr. Ramtin Hadidi (Co-PI), Clemson University

Project Period:

Start Date: 4/1/2017

Completion Date: 10/31/2019



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| 1 | Proj | ject Objectives | 3 |
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| 2 | Proj | ject Team and Tasks | . 3 |
| 3 | Proj | ject Description and Outcomes | . 4 |
| | 3.1 | Background, Research Objectives and Major Accomplishments | . 4 |
| | 3.2 | PVSG Description | . 5 |
| | 3.3 | Experimental Test Results | . 8 |
| | 3.4 | System Studies with PVSG | 10 |
| | 3.5 | Technical Presentations and Live Demonstration | 16 |



1 Project Objectives

The project objective is to design and develop a 40 kW ultracapcitor energy storage system that works in parallel with commercial grid following PV inverters. The entire system behaves like a grid forming PV Synchronous Generator (PVSG). It is a significant step needed to make all PV systems to provide both Voltage and Frequency support to the grid.

2 Project Team and Tasks

| UT Austin Team | tin Team | | | |
|-------------------|---|--|--|--|
| Role | Name | | | |
| Faculty Advisor | Dr. Alex Huang | | | |
| Graduate Students | Yizhe Xu (graduated), Xiangjun Quan(graduated) and Chengjing Li | | | |
| Clemson Team | | | | |
| Clemson Team | | | | |
| Clemson Team Role | Name | | | |
| | Name Dr. Ramtin Hadidi | | | |



3 Project Description and Outcomes

3.1 Background, Research Objectives and Major Accomplishments

As the renewable energy and distributed generation penetration increases in utility power grids, the traditional control approach for these resources needs a fundamental change in order to maintain overall grid stability. Traditionally, PV inverters are designed as a grid following current source, providing no ancillary services to maintain the grid stability. For very high PV penetration levels, PV power plants will replace traditional synchronous generator and they must also provide grid frequency support and regulation capability. This effectively requires a totally new generation of PV inverter technology.

Dr. Huang's team has previously developed a single phase PVSG, this work has been accomplished and one paper was published. See paper in "Integration of DC Microgrids as Virtual Synchronous Machines into the AC Grid," in *IEEE Transactions on Industrial Electronics*, vol. 64, no. 9, pp. 7455-7466, Sept. 2017.

In this CAPER project, a novel AC coupled solution that transforms an existing grid following PV system to a grid forming one without any hardware and software modification of the PV inverter is proposed and implemented. The resulting system, the Photovoltaic Synchronous Generator (PVSG), is achieved by an AC coupled supercapacitor-based energy storage system (ESS). The following major accomplishments have been made in CAPER project:

- 1- A 40 kW/480V ultra capacitor ESS is designed, developed, and tested.
- 2- Together with a commercial PV system, the 40 kW PVSG system is tested and demonstrated in October 2019 at UT Austin in 2019. Duke Energy, Austin Energy representatives participated in the demonstration.
- 3- In Feb 2020, the 40 KW PVSG system was also demonstrated to representatives from ERCOT
- 4- A novel control for the PVSG was developed with robust inertia and primary frequency response capability.
- 5- Following papers are published.
 - [1] X. Quan *et al.*, "Novel Power Control of Voltage-Controlled Inverters for Grid Inertia Support," in 2019 IEEE Applied Power Electronics and Exposition (APEC), Anaheim, CA, USA, 2019, pp. 927-931.
 - [2] X. Quan *et al.*, "Photovoltaic Synchronous Generator (PVSG): Architecture and Control Strategy for A Grid-Forming PV Energy System," in *IEEE Journal of Emerging and Selected Topics in Power Electronics*. doi: 10.1109/JESTPE.2019.2953178 is published.
 - [3] X. Quan, A. Q. Huang and H. Yu, "A Novel Order Reduced Synchronous Power Control for Grid-Forming Inverters," in IEEE Transactions on Industrial Electronics. doi: 10.1109/TIE.2019.2959485



[4] P. Hazra and R. Hadidi, "Inertial response enhancement of a microgrid using Photovoltaic Synchronous Generator," 2018 IEEE Electronic Power Grid (eGrid), Charleston, SC, Nov. 2018, pp. 1-4.

3.2 PVSG Description

The system diagram of the implemented three-phase PVSG is shown in Fig. 1. Fig. 2 displays the schematic illustration of the proposed PVSG whose equivalent circuit diagram is shown in Fig. 3.

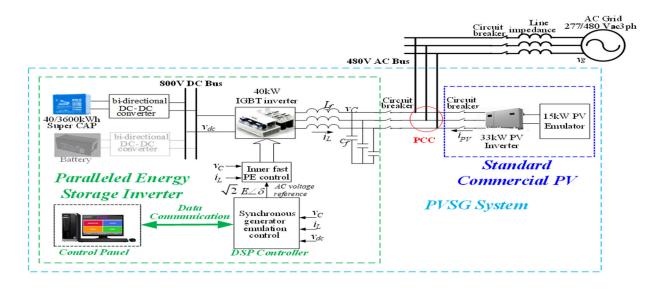


Fig. 1. System Diagram of the implemented three-phase PVSG system.

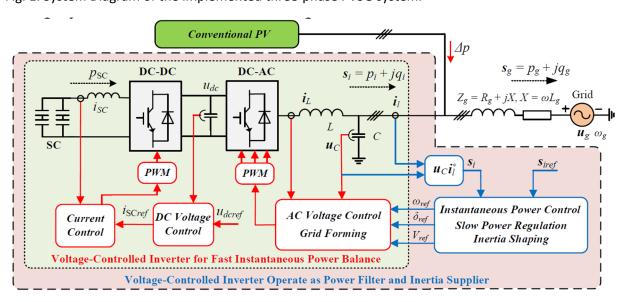


Fig. 2. Illustration of the proposed PVSG by paralleled grid-forming inverter.



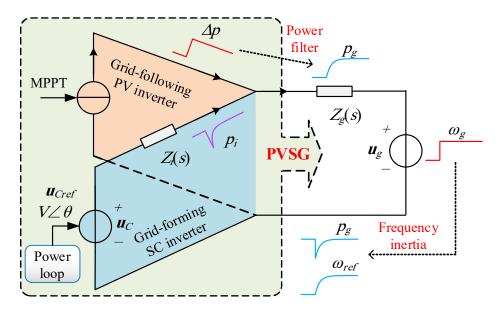


Fig. 3. Equivalent circuit diagram of the proposed PVSG and the functionality illustration of the power filter and frequency inertia.

The PVSG includes a grid following PV (and/or load) in parallel with a grid-forming inverter with SC on the DC side. The control of the PV is a standard grid-following MPPT controlled inverter system. PVSG controls are implemented in the SC inverter which can be further divided into two parts. The first one is the fundamental voltage and current control with fast dynamic response which achieves the automatic and fast response to the power intermittence and grid frequency variations, as shown by red parts in Fig. 2. The second part implements the slow power control to emulate the inertia hence achieving power filter and frequency inertia, as shown by the blue parts in Fig. 2. The proposed inertia solution includes frequency inertia and power filter as demonstrated in Fig. 3. These two functions are used to alleviate power demand of kinetic energy of SG in event of power and frequency variations. Therefore, they need a very fast and short time active power injection/absorbing to/from the grid when PV power or frequency changes suddenly. To this end, the response of the grid-forming inverter should be as fast as possible to avoid the requirement of step power from grid. As shown in Fig. 3, the conventional grid-following PV system achieves the MPPT control, while the added inverter operates as a voltage source whose amplitude and frequency are adjusted by the power loop. The proposed control diagram of the PVSG is illustrated in Fig. 4, for detailed design of AC-DC, DC-DC, and power flow controllers design please refer to [2]. TABLE I lists the system parameters and the experimental setup is displayed in Fig. 5.



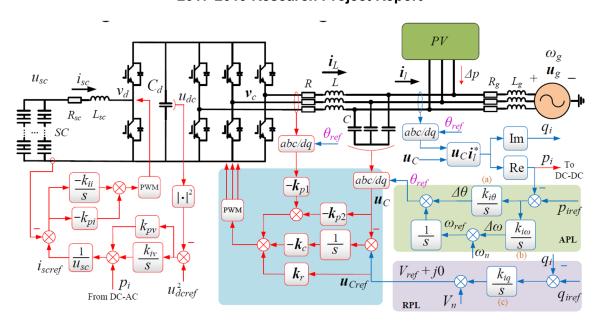


Fig. 4. Control of the proposed PVSG by paralleled grid-forming inverter.

Table 1. Circuit Parameters of the PVSG System

| | Parameter | Value |
|------------|------------------------------|---------------|
| L | Inductance of AC filter | 1 mH |
| C | Capacitance of ACfilter | 54 μF |
| R | Inductor resistance | $0.05~\Omega$ |
| L_{g} | Grid-side inductance | 1.5 mH |
| L_{sc} | SC-side inductance | 1.8 mH |
| SC | Super capacitance | 2 F |
| C_d | DC link capacitance | 3300 μF |
| $f_{ m s}$ | Switching frequency | 16,000 Hz |
| | Voltage ph-ph RMS/ frequency | 480 V / 60 Hz |
| | DC link voltage | 830 V |



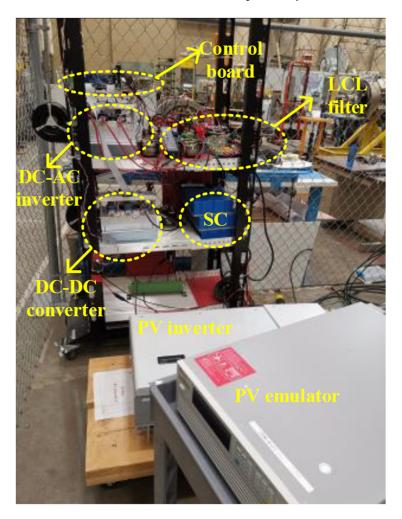


Fig. 5. Experiment setup.

3.3 Experimental Test Results

The experimental test results are shown in Fig. 6 and Fig. 7. In these tests, the PVSG system is connected to three-phase 480 V Austin Energy grid. In Fig. 6, it can be seen that by variation in the grid's frequency, shown in middle figure, the Super Capacitor (SC) system injects or absorbs active power, shown in top figure with red color, to provide inertia to the grid frequency. Also, this system is capable of reactive power compensation where the reactive power injected/absorbed by SC inverter is shown in top figure by green. In Fig. 7, it can be seen that by although a sudden change has happened in PV generation, the grid frequency is smoothed by the PVSG system.



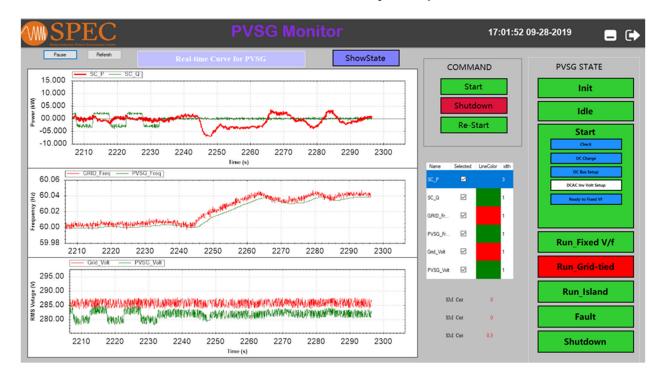


Fig. 6. Experimental test results shown by developed software.

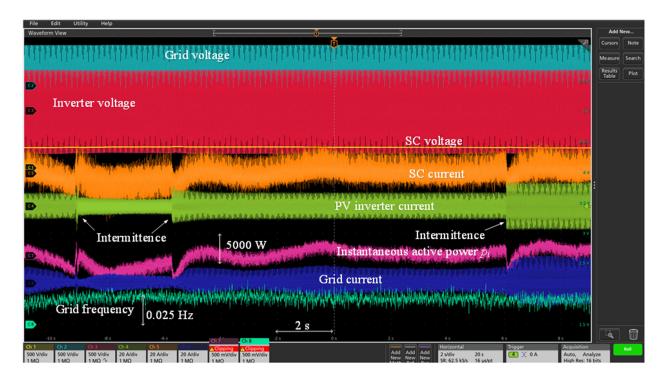


Fig. 7. Experimental results shown by oscilloscope.



3.4 System Studies with PVSG

The system study has been performed in two microgrid test systems to show the effectiveness of the PVSG solution. Fig. 8 shows the first system. The synchronous machine is rated at 52.5 kVA,460 V L-L RMS, 1800 RPM and PVSG unit is rated at 40 kVA.

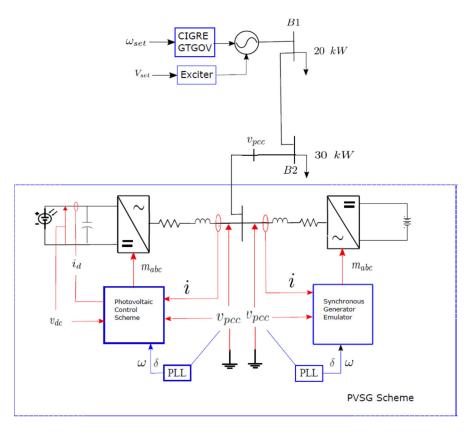


Fig. 8. Microgrid Test System for 40kVA PVSG system.

Figure 9 shows the response of PVSG units subject to power set point change in photovoltaic inverter from 0.4 p.u. to 0.3 p.u. at t=50s. This creates an under frequency disturbance. Figure 10 compares frequency deviation in a system with a PVSG unit and one without synchronous generator emulator part which clearly shows the improvement in frequency response. Figure 11 shows the frequency response of PVSG units subject to power set point change in photovoltaic inverter from 0.4 p.u. to 0.5 p.u. at t=50s. This creates an under frequency disturbance. Figure 12 compares frequency deviation in a system with a PVSG unit and one without synchronous generator emulator part which clearly shows the improvement in frequency response. All plots are in per unit.



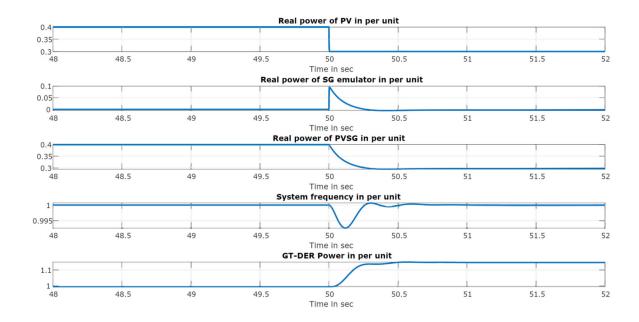


Fig. 9. Time-domain response of different components subject to power set point change in photovoltaic inverter from 0.4 p.u. to 0.3 p.u. at t=50s.

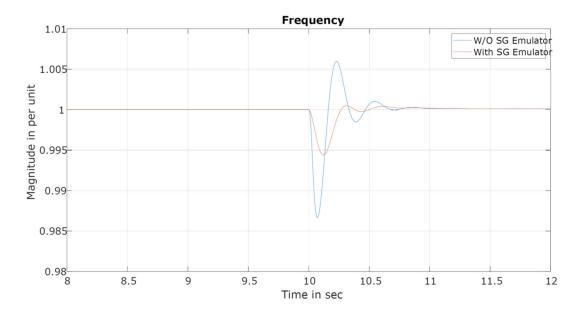


Fig. 10. Frequency comparison for a system with and without the synchronous generator emulator part.



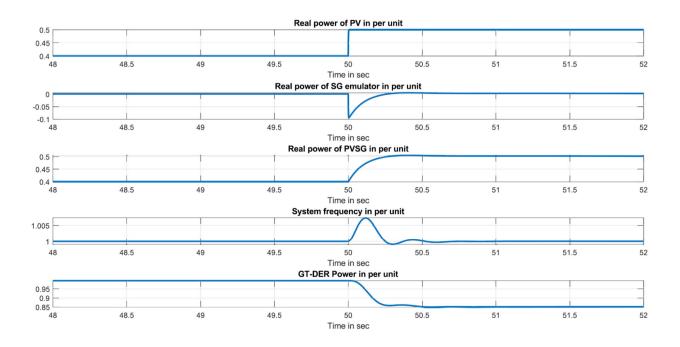


Fig. 11. Time-domain response of different components subject to power set point change in photovoltaic inverter from 0.4 p.u. to 0.5 p.u. at t=50s.

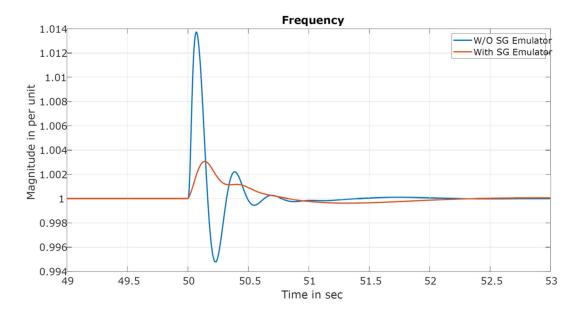


Fig. 12. Frequency comparison for a system with and without the synchronous generator emulator part.



A second test system is considered for studying the effect of larger PVSG unit on the system behavior and response. IEEE 13 node system is selected for the study as shown in Figure 13.

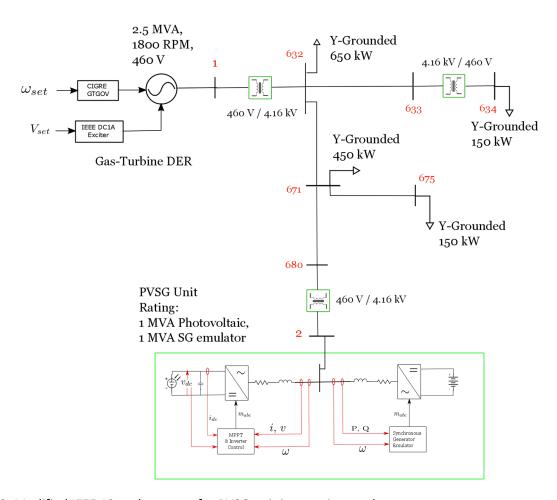


Fig. 13. Modified IEEE 13 node system for PVSG unit integration study.

The system frequency response to PV power reduction without SG emulator part in steps of 160kw until 640 kw are shown in Figure 14. The same step reduction in PV output is applied in a system with PVSG and the frequency responses are capture in Figure 15. It is clear from Figures 14 and 15 that frequency dip has been improve significantly for a system with PVSG. The real power output of PVSG unit and real power response of the gas turbine with PVSG unit are shown in Figures 16 and 17 due to this PV set point changes. Fig 16 shows smooth response of PVSG unit as a step change of PV inverter which results to better inertia support for the system.



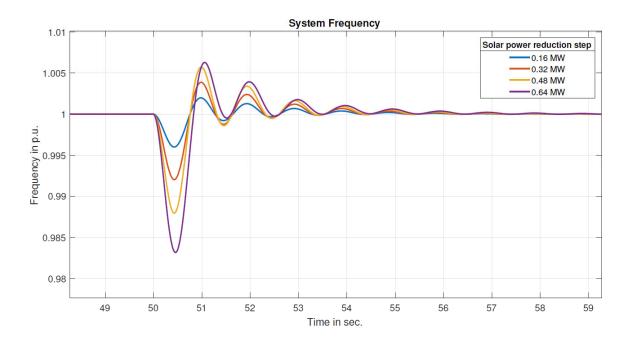


Fig. 14. Time-domain frequency response to step changes in PV inverter set-point with steps of 160 kW in the system without SG emulator.

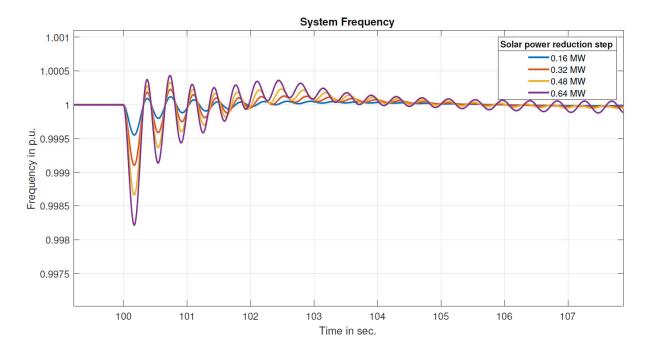


Fig. 15. Time-domain frequency response to step changes in PV inverter set-point with steps of 160 kW in the system with SG emulator.



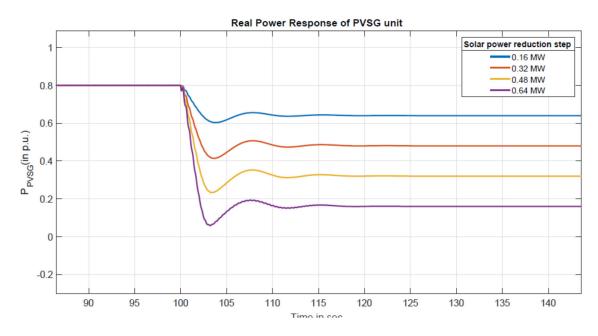


Fig. 16. Time-domain PVSG power response to step changes in PV inverter set-point with steps of 160 kW in the system with SG emulator.

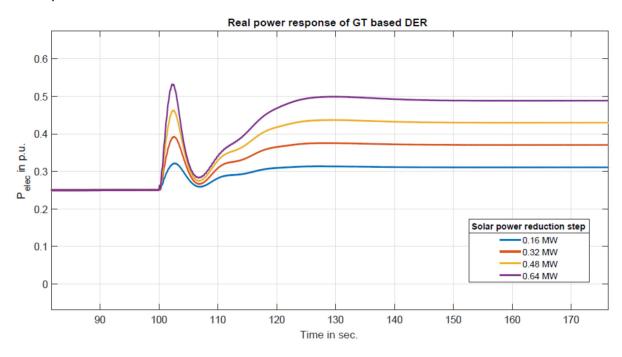


Fig. 17. Time-domain gas turbine power response to step changes in PV inverter set-point with steps of 160 kW in the system with SG emulator.



3.5 Technical Presentations and Live Demonstration

Several technical presentation and live demonstration of the PVSG system conducted for the researchers from academia, DOE, and industry at CAPER meetings and also in Semiconductor Power Electronics Center (SPEC), University of Texas at Austin, Austin, TX that are illustrated in the following figures.



Fig. 18. Project Progress presentation at Fall 2018 CAPER meeting in Charleston, November 15, 2018.





Fig. 19. Project Progress presentation at spring 2019 CAPER meeting in Raleigh on Mach 28, 2019.



Fig. 20. Project final presentation at Fall 2019 CAPER meeting in Charlotte on November 15, 2019.





Fig.21. Live PVSG Demonstration to Duke Energy, Austin Energy, and Clemson University on October 7, 2019.



Fig.22. PVSG Demonstration to DOE guests on November 7, 2019 and January 29, 2020.



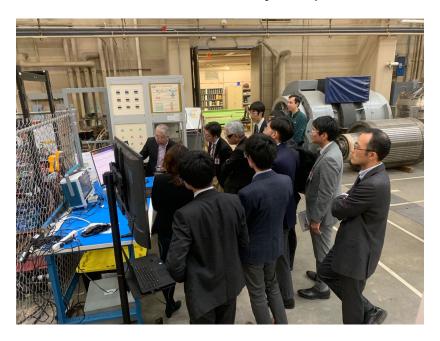


Fig.23. Demonstration to Japanese researchers from NEDO, TEPCO, Chubu Electric Power Company, Chugoku Electric Power Company, Kyushu Electric Power Company, Kansai Electric Power Company, Japan Electrical Manufacturers' Association and Mitsubishi Research Institute, Inc on November 18, 2019.



Fig.24. Live PVSG Demonstration to ERCOT and Austin Energy on February 4, 2020.

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