

THE EMPIRE DISTRICT ELECTRIC COMPANY

2017

ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE REPORT

Prepared in Compliance with 4 CSR 240-20.100

April 2018



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2017 ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE REPORT

INTRODUCTION

Pursuant to the Missouri Public Service Commission's (Commission) renewable energy standards rule, 4 CSR 240-20.100(8), The Empire District Electric Company (EDE or Empire), a Kansas corporation, is filing the Annual Renewable Energy Standard (RES) Compliance Report. The rule became effective in September 2010, and pursuant to the rule EDE must file the 2017 RES Compliance Report on or before April 15, 2018.

EDE began to develop its wind renewable energy portfolio on December 10, 2004, when it entered into a 20-year contract with Elk River Windfarm, LLC (owned by Avangrid Renewables, LLC) to purchase all of the energy generated at the 150-megawatt Elk River Windfarm located in Butler County, Kansas.

On June 19, 2007, EDE enhanced its renewable energy portfolio when it entered into a 20-year purchased power agreement with Cloud County Wind Farm, LLC. EDP Renewables North America LLC is an indirect parent company of Cloud County Wind Farm, LLC. Pursuant to the terms of the agreement, EDE purchases all of the output from the 105-megawatt Phase 1 Meridian Way Wind Farm located in Cloud County, Kansas.

In addition, the Ozark Beach Hydroelectric Project, owned by EDE has produced renewable hydropower for many years. The RES rules allow for the banking of Renewable Energy Credits (REC) for up to a three year time period. This has allowed the use of eligible Ozark Beach RECs generated in 2016 and 2017 in meeting the 2017 RES requirements.

Effective May 16, 2015, Empire began offering rebates for Missouri customers for qualifying solar installations in accordance with the Missouri RES and Empire's Solar Rebate Rider approved by the Commission, which continued in 2017.

The following sections provide information required to indicate compliance with the rule:

SECTION (8) (A) 1 A, B: TOTAL MISSOURI RETAIL ELECTRIC SALES AND REVENUE

The following table represents the number of megawatt-hours (MWh) of electricity delivered in 2017 by EDE to its Missouri retail customers, as reflected in the monthly billing statements. In addition, a column is provided capturing the revenue from total retail electric sales to Missouri customers:

Table 1: Missouri 2017 Total Retail Sales

Year	MWh	Revenue
2017	3,976,153	\$466,785,495

Data Source: Customers Kilowatt Hours Revenue Report

SECTION (8) (A) 1 C: TOTAL RETAIL ELECTRIC SALES SUPPLIED BY RENEWABLE ENERGY RESOURCES

In compliance with Section 393.1030, RSMo, EDE retired sufficient RECs to provide the equivalent of 5% of its retail electric sales for 2017. With 3,976,153 MWh total retail electric sales for 2017, 39,957 RECs were retired from EDE's Ozark Beach Hydroelectric Project (Ozark Beach), a certified renewable energy facility. Ozark Beach consists of 4 generators with individual nameplate ratings of 4MW each. The facility received Missouri Department of Natural Resources Certification of Renewable Energy Generation Facility status on September 11, 2011. Using the provision included in 4 CSR 240-20.100 (3) (G), the additional credit allowance of 0.25 per REC was claimed since the renewable energy resource is physically located in the state of Missouri.

In addition, 139,080 RECs from 2017 were retired from our Elk River Windfarm, which were received through our ongoing purchased power agreement. Elk River also received

Missouri Department of Natural Resources Certification of Renewable Energy Generation Facility status in 2011.

Finally, 7,826 Solar Renewable Energy Credits (SRECs) from customer-generated sources were retired to meet the 2% solar compliance requirement. EDE received certification for the aggregate customer solar renewable energy generation facilities from the Department of Economic Development, Division of Energy in 2016 and 2017.

All RECs retired to meet the 5% compliance requirement are shown in the table below.

Table 2: REC Retirement for Compliance with 2017 Missouri RES

Missouri Retail Sales	RES Requirement	¹ Non-Solar RECs Retired	Solar RES Requirement	² Solar RECs Retired	Total RECs Retired
3,976,153	198,808		3,977		
		39,957 (Ozark Beach 1.25 Mo Source)		7,826 (EDE Solar Aggregates 1.25 Mo Source)	
		139,080 (Elk River)			
Total		189,026		9,782	198,808

¹Vintage 2016 and 2017 RECs from Ozark Beach (Missouri source) and Vintage 2017 RECs from Elk River were retired for compliance with the Missouri RES.

² 2016 Vintage SRECs were retired from EDE Solar Aggregates (Missouri source).

SECTION (8) (A) 1 D: CURRENT NUMBER AND VALUE OF RECS CREATED BY EDE OWNED FACILITY.

In 2017, EDE-owned Ozark Beach generated energy which allowed for the creation of 33,928 RECs. Using the provision of the Missouri RES allowing for additional credit of 0.25, the resultant RECs available for compliance totaled 42,410 RECs (33,928 x 1.25). The RECs generated from the EDE-owned source are utilized first to meet compliance as additional costs are not incurred to the rate payer in order to acquire RECs. The RECs generated from Ozark Beach have little value as they typically cannot be used to meet Renewable Portfolio Standards (RPS) in other states. The value of the energy generated by Ozark Beach for calendar year 2017 was *\$xx.xx¢/MWh as determined by the locational marginal pricing through the Southwest Power Pool (SPP). The value of the customer generated solar energy was \$79.98/SREC. This value is determined using the rebate amount of \$13,268,967 paid in solar rebates divided by 16,590.67 (the amount of SRECs received). The rebate entitles EDE to receive SRECs from these systems for 10 years.

SECTION (8) (A) 1 E, F: SOURCE AND NUMBER OF RECS ACQUIRED, SOLD, TRANSFERRED, RETIRED

EDE receives renewable energy from four sources: ownership of Ozark Beach; two purchased power agreements (one with the Elk River Windfarm and the other with the Meridian Way Wind Farm); and customer-generated solar. (See ATTACHMENT 1)

Pursuant to the terms of the two 20-year windfarm agreements, EDE will purchase all of the output from the 150-megawatt Elk River Windfarm, and 105-megawatts from the Meridian

Way Wind Farm. EDE anticipates annual generation of approximately 550,000 MWhs from Elk River and approximately 330,000 MWhs from Meridian Way.

During 2017, 25,908 vintage 2016 and 2017 RECs from hydroelectric generation at Ozark Beach were retired to help fulfill the non-solar Missouri compliance obligation. In addition, 136,400 vintage 2017 RECs from generation at the Elk River Windfarm were retired for the non-solar RES obligation for 2017. In February of 2018, 14,049 additional 2017 RECs from hydroelectric generation at Ozark Beach, plus 2,680 RECs generated in 2017 at the Elk River Windfarm were retired.

To meet the compliance obligation, 7,826 SRECs generated from EDE customers in 2015 and 2016 were utilized. In total, 7,826 SRECs were retired in December of 2017 to fulfill the Missouri compliance obligation. Any remaining SRECs will be banked for future use. RECs from Ozark Beach and SRECs from customer installed net metered systems are entitled to the 1.25 multiplying factor as they represent Missouri based generation.

EDE utilizes the North American Renewable Registry (NARR) as recommended by Staff and approved by the Commission for tracking all RECs. In total, 179,037 RECs and 7,826 SRECs were retired to fulfill the 2017 compliance obligation. (See ATTACHMENT 2)

SECTION (8) (A) 1 G: IDENTIFICATION OF RECS CARRIED FORWARD

As indicated earlier, RECs and SRECs generated by Ozark Beach, Elk River Windfarm, and EDE Solar Aggregates 1 through 15 which were used for compliance are registered with the NARR. Registration of additional EDE Solar Aggregates 16 – 17 has been approved by the NARR. ATTACHMENT 3 included with this report indicates by source and serial number RECs registered with the NARR that have been carried forward for future use. For 2017 compliance, 2016 and 2017 Ozark Beach vintage RECs totaling 39,957 were retired for compliance using the 3-year banking provision. For the 2017 compliance year 139,080 Elk River RECs vintage

2017 RECs were retired for compliance. Carried forward are additional 2017 Elk River RECs totaling 151,150. The majority of the remaining RECs will be sold after all compliance obligations are met. A portion of the Elk River RECs were retired for compliance with the Kansas voluntary RES. Solar SRECS totaling 17,539 will be carried forward for use in future compliance.

In addition to the RECs registered with the NARR EDE receives additional RECs from the Meridian Way Wind Farm. Currently, the Meridian Way Wind Farm is in the process of being added to the registry, pending NARR review. The RECs from Meridian Way are not being used for Missouri compliance; therefore they are not included in this reporting section. EDE does not anticipate utilizing RECs from the Meridian Way Wind Farm for compliance throughout the entirety of the RES compliance period specified in Section 393.1030, RSMo.

SECTION (8) (A) 1 H: GAINS AND LOSSES FROM SALE OR PURCHASE

EDE utilized wind RECs from the Elk River Windfarm purchased power agreement in order to comply with the Missouri non-solar RES. SRECs from customer generation were utilized in order to comply with the solar portion of the Missouri RES.

ATTACHMENTS 4 and 5 include a REC report indicating sales of RECs, and the amount of wind generation allocated for Missouri retail customers by each wind farm. Any gains from sale or purchase were returned to the customers through the fuel adjustment.

SECTION (8) (A) 1 I: ACQUISITION OF RENEWABLE ENERGY

Non-Solar renewable energy is purchased for EDE from the following non-utility owned facilities:

Elk River

Wind (Resource)

Avangrid Renewables (Owner)

14980 SE 190th Rd.

Latham, KS 67072

Meridian Way I

Wind (Resource)

EDP Renewables North America LLC (Owner)

1409 Iron Road

Concordia, KS 66901

All energy was derived from eligible renewable energy technology (wind, hydro and solar). ATTACHMENT 6 includes information to certify that the renewable energy attributes of the energy from Elk River Windfarm and the Meridian Way Wind Farm, have not been used to meet the requirements of any other local or state mandate.

SECTION (8) (A) 1 J: ACQUISITION OF ELECTRICAL ENERGY AND/OR RECS FROM CUSTOMER GENERATORS

ATTACHMENT 7 shows the system operational dates and estimated amounts of SRECs generated from customer generators using the Commission–approved estimation method, PVWatts. The SRECS were acquired by EDE as a condition of receiving the solar rebate instituted in May of 2015 and extending through 2017.

SECTION (8) (A) 1 K: CUSTOMERS RECEIVING SOLAR REBATE

For the calendar year 2017, the annual number of customers that applied and received a solar rebate by December 31, 2017 in accordance with section (4) of the Rule was 336. A total of 1,236 Missouri solar net metering customers have been connected to the Empire system as of that date.

SECTION (8) (A) 1 L: CUSTOMERS DENIED SOLAR REBATE

There were no customers that were denied a solar rebate

SECTION (8) (A) 1 M: FUNDS EXPENDED BY EDE FOR SOLAR REBATES

Annual funds expended by EDE for 2017 solar rebates totaled \$1,708,378. Since the beginning of the rebate program over \$13.2 million has been expended for solar rebates.

SECTION (8) (A) 1 N: ANNUAL COMPLIANCE WITH RES COMPLIANCE PLAN

See Affidavit of Compliance with 2017 Compliance Plan, ATTACHMENT 8.

SECTION (8) (A) 1 O: NON-COMPLIANCE WITH RES COMPLIANCE PLAN

EDE has made every effort to comply and believes it has achieved compliance with the Missouri RES Compliance Plan for the 2017 compliance period.

SECTION (8) (A) 1 P: CALCULATION OF ACTUAL CALENDAR YEAR RETAIL RATE IMPACT

See ATTACHMENT 9. The calculations in ATTACHMENT 9 are based on total company not Missouri jurisdictional.

ATTACHMENT 1: RECS ACQUIRED

Purchased Power from Elk River Windfarm

Payment Date	Amount	Meter Readings
2/22/2017		
3/27/2017		
4/24/2017		
5/22/2017		
6/22/2017		
7/25/2017		
8/23/2017		
9/26/2017		
10/23/2017		
11/23/2017		
12/26/2017		
1/24/2018		
TOTALS	\$ -	-

Purchased Power from Cloud County Wind Farm

Payment Date	Amount	Meter Readings
2/20/2017		
3/20/2017		
4/20/2017		
5/22/2017		
6/19/2017		
7/20/2017		
8/21/2017		
9/22/2017		
10/20/2017		
11/20/2017		
12/22/2017		
1/22/2018		
TOTALS		

ATTACHMENT 2: RECS RETIRED FOR MISSOURI COMPLIANCE

Retirement	State	Compliance	NAR ID	Asset	Fuel/Project	Certificate	Certificate	Quantity	MO Compl	MO
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Oct	NAR-REC-9	2661	3326.25	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Aug	NAR-REC-9	787	983.75	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Jan	NAR-REC-9	4078	5097.5	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Dec	NAR-REC-9	7641	9551.25	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Apr	NAR-REC-9	5585	6981.25	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Mar	NAR-REC-9	3733	4666.25	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	16-Dec	NAR-REC-9	4380	5475	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Feb	NAR-REC-9	2293	2866.25	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-May	NAR-REC-9	116	145	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	16-Nov	NAR-REC-9	1649	2061.25	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Sep	NAR-REC-9	3287	4108.75	Yes
RPS	MO	2017	GEN99	Ozark Beac	Hydroelect	17-Nov	NAR-REC-9	3747	4683.75	Yes
								39957	49946.25	
RPS	MO	2017	AGG2476	EDE Solar	/ Solar	16-Dec	NAR-AGG-	92	115	Yes
RPS	MO	2017	AGG2475	EDE Solar	/ Solar	16-Dec	NAR-AGG-	347	433.75	Yes
RPS	MO	2017	AGG2379	EDE Solar	/ Solar	16-Dec	NAR-AGG-	623	778.75	Yes
RPS	MO	2017	AGG2380	EDE Solar	/ Solar	16-Dec	NAR-AGG-	592	740	Yes
RPS	MO	2017	AGG2381	EDE Solar	/ Solar	16-Dec	NAR-AGG-	514	642.5	Yes
RPS	MO	2017	AGG2376	EDE Solar	/ Solar	16-Dec	NAR-AGG-	978	1222.5	Yes
RPS	MO	2017	AGG2377	EDE Solar	/ Solar	16-Dec	NAR-AGG-	933	1166.25	Yes
RPS	MO	2017	AGG2372	EDE Solar	/ Solar	16-Dec	NAR-AGG-	1278	1597.5	Yes
RPS	MO	2017	AGG2378	EDE Solar	/ Solar	16-Dec	NAR-AGG-	871	1088.75	Yes
RPS	MO	2017	AGG2323	EDE Solar	/ Solar	16-Dec	NAR-AGG-	409	511.25	Yes
RPS	MO	2017	AGG2375	EDE Solar	/ Solar	16-Dec	NAR-AGG-	1189	1486.25	Yes
								7826	9782.5	
RPS	MO	2017	GEN97	Elk River W	Wind	17-Jul	NAR-REC-9	5481	5481	Yes
RPS	MO	2017	GEN97	Elk River W	Wind	17-Jul	NAR-REC-9	2680	2680	Yes
RPS	MO	2017	GEN97	Elk River W	Wind	17-May	NAR-REC-9	42451	42451	Yes
RPS	MO	2017	GEN97	Elk River W	Wind	17-Apr	NAR-REC-9	50104	50104	Yes
RPS	MO	2017	GEN97	Elk River W	Wind	17-Jun	NAR-REC-9	38364	38364	Yes
								139080	139080	
TOTAL RETIREMENT								186863		

ATTACHMENT 3: TOTAL RECS CARRIED FORWARD

NAR ID	Asset	Fuel/Project Type	Certificate		MO Compliance		
			Vintage	Certificate Serial Numbers	Quantity	Equivalency	MO
AGG2380	EDE Solar Agg # 10	Solar	17-Dec	NAR-AGG-2380-MO-12-2017-76131-1 to 1075	1075	1343.75	Yes
AGG2372	EDE Solar Agg # 4	Solar	17-Dec	NAR-AGG-2372-MO-12-2017-76125-1 to 1244	1244	1555	Yes
AGG2375	EDE Solar Agg # 5	Solar	17-Dec	NAR-AGG-2375-MO-12-2017-76126-1 to 1282	1282	1602.5	Yes
AGG2376	EDE Solar Agg # 6	Solar	17-Dec	NAR-AGG-2376-MO-12-2017-76127-1 to 1201	1201	1501.25	Yes
AGG2377	EDE Solar Agg # 7	Solar	17-Dec	NAR-AGG-2377-MO-12-2017-76128-1 to 1250	1250	1562.5	Yes
AGG2378	EDE Solar Agg # 8	Solar	17-Dec	NAR-AGG-2378-MO-12-2017-76129-1 to 1247	1247	1558.75	Yes
AGG2379	EDE Solar Agg # 9	Solar	17-Dec	NAR-AGG-2379-MO-12-2017-76130-1 to 993	993	1241.25	Yes
AGG2381	EDE Solar Agg #11	Solar	17-Dec	NAR-AGG-2381-MO-12-2017-76132-1 to 990	990	1237.5	Yes
AGG2475	EDE Solar Agg #12	Solar	17-Dec	NAR-AGG-2475-MO-12-2017-76133-1 to 981	981	1226.25	Yes
AGG2476	EDE Solar Agg #13	Solar	17-Dec	NAR-AGG-2476-MO-12-2017-76134-1 to 1087	1087	1358.75	Yes
AGG2516	EDE Solar Agg #14	Solar	17-Dec	NAR-AGG-2516-MO-12-2017-76135-1 to 1049	1049	1311.25	Yes
AGG2517	EDE Solar Agg #15	Solar	17-Dec	NAR-AGG-2517-MO-12-2017-76136-1 to 656	656	820	Yes
AGG2560	EDE SOLAR AGG #16	Solar	17-Dec	NAR-AGG-2560-MO-12-2017-76137-1 to 252	252	315	Yes
AGG2561	EDE Solar Agg #17	Solar	17-Dec	NAR-AGG-2561-MO-12-2017-76138-1 to 36	36	45	Yes
AGG2321	EDE Solar Aggregate #1	Solar	17-Dec	NAR-AGG-2321-MO-12-2017-76122-1 to 840	840	1050	Yes
AGG2322	EDE Solar Aggregate #2	Solar	17-Dec	NAR-AGG-2322-MO-12-2017-76123-1 to 1240	1240	1550	Yes
AGG2323	EDE Solar Aggregate #3	Solar	17-Dec	NAR-AGG-2323-MO-12-2017-76124-1 to 1164	1164	1455	Yes
GEN366	Stanton Solar Farm - RP-C	Solar	15-May	NAR-REC-366-FL-05-2015-45653-124 to 1075	952	952	Yes
SOLAR TOTAL					17539		
GEN97	Elk River Wind - Elk River 'Wind		17-Oct	NAR-REC-97-KS-10-2017-71766-1 to 43301	43301	43301	Yes
GEN97	Elk River Wind - Elk River 'Wind		17-Sep	NAR-REC-97-KS-09-2017-71416-1 to 32178	32178	32178	Yes
GEN97	Elk River Wind - Elk River 'Wind		17-Aug	NAR-REC-97-KS-08-2017-71165-14799 to 18113	3315	3315	Yes
GEN97	Elk River Wind - Elk River 'Wind		17-Nov	NAR-REC-97-KS-11-2017-73440-1 to 34529	34529	34529	Yes
GEN97	Elk River Wind - Elk River 'Wind		17-Dec	NAR-REC-97-KS-12-2017-74675-1 to 37827	37827	37827	Yes
WIND TOTAL					151150		
TOTAL					168689		

ATTACHMENT 5:

WIND GENERATION ALLOCATION FOR MO RETAIL CUSTOMERS 2017

Facility	Generation (MWh)	Percentage*	Energy Supplied to Missouri Retail Customers (MWh)
Elk River Windfarm	467,279	84.025%	392,631.18
Meridian Way Windfarm	334,179	84.025%	280,793.91

* Allocation based on 12-month average CP Demand Factor



Energy

GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

I. Facility information

Name of Generation Facility ("Facility"): Elk River

Company or Person that Owns Facility ("Seller"): Elk River Windfarm, LLC

Address of Facility: 15936 SE 190th, Latham, KS 67072

North American Electricity Reliability Corporation (NERC) region in which Facility is located:¹ SPP

Facility ID Number:² 56303 EIA or QF? (check one) Nameplate Capacity (MW): 150

Date Facility was First Operational: 12/15/2005 Date of Capacity Upgrade or Repowering:³ ___/___/___

Contact Person: Adam Cherry Title: Origination Analyst

Telephone: 503-423-2086 Email Address: adam.cherry@avangrid.com

II. Renewable electricity or RECs⁴ supplied to Purchaser indicated below, by fuel type

On the table below, list the renewable megawatt-hours (MWh) sold or transferred to Purchaser, broken down by quarter of generation in separate rows:

Fuel Type ⁵	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind		Q1 2017
Wind		Q2 2017
Wind		Q3 2017
Wind		Q4 2017

¹ If you are unsure of which region Facility is in, see <http://www.nerc.com/regional/>

² Enter Energy Information Administration (EIA) identification number for the generating facility; if no EIA number, enter the utility-assigned Qualifying Facility (QF) identification number.

³ If applicable. Repowered facilities must meet Green-e Energy's criteria for repowering, available at http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc

⁴ Renewable Energy Certificates, which represent the renewable attributes of 1 MWh of renewable electricity generation.

⁵ If using biomass fuels, list out the specific type (i.e. landfill gas, wood waste, etc.) and fill in section IV below.

III. Declaration

I, Ryan Ohira, Manager, Risk Control, declare that the renewable electricity (electricity bundled with renewable attributes) / renewable attributes only⁶ (check one) generated by Facility during the Period of Generation were sold exclusively from Seller to Empire District Electric Company ("Purchaser").

I further declare that:

- 1) all the renewable attributes (including CO₂ benefits), including any emissions offsets, reductions or claims, represented by the renewable electricity generation listed above were transferred to Purchaser;
- 2) to the best of my knowledge, the renewable attributes were not sold, marketed or otherwise claimed by a third party other than Purchaser;
- 3) Seller sold the renewable attributes only once;
- 4) the renewable attributes or the electricity that was generated with the attributes was not used to meet any federal, state or local renewable energy requirement, renewable energy procurement, renewable portfolio standard, or other renewable energy mandate by Seller, nor to the best of my knowledge, by any other entity other than Purchaser;⁷
- 5) the renewable electricity sold or electricity associated with the attributes sold was not used on-site for powering electric generation equipment (parasitic load);
- 6) if Purchaser is receiving electricity bundled with renewable attributes from Seller, the renewable electricity was delivered into the NERC region in which Facility is located;
- 7) if Facility is located in Canada, it is EcoLogo certified and was throughout the Period of Generation; and
- 8) the electricity that was generated with the attributes was not separately sold, separately marketed or otherwise separately represented as renewable energy by Seller, or, to the best of my knowledge, any other entity other than Purchaser.

Please indicate the following:

Is Facility owner reporting its direct greenhouse gas emissions in a legally binding cap and trade program for the time period of generation listed on this form?

- Yes;⁸ list the cap and trade program: _____
- No

If Seller is providing only RECs to Purchaser and selling the associated electricity to a utility or load-serving entity, please write the name of the utility or load-serving entity here: Empire District Electric Company

- Check box if sale is part of a Qualifying Facility (QF) contract

⁶ If selling renewable attributes to Purchaser without electricity, please fill in the name of the load serving entity buying the undifferentiated electricity, if applicable, at the bottom of this Declaration section.

⁷ Renewable attributes used by Purchaser for any of the purposes listed in 4) are ineligible for Green-e Energy certification.

⁸ In this case the renewable energy or RECs reported on this form may be ineligible for Green-e Energy certification. For more information, contact Green-e Energy Staff at 415-561-2100.

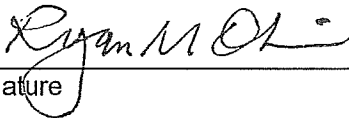
IV. Additional statement required for and applicable to biomass facilities only

- 1) I attest that no more than five percent (5%) fossil fuels and other fuels that are not Green-e Energy eligible, measured on a BTU basis, were used, including as a start-up, pilot or supplemental fuel, to produce the electricity and/or RECs in the above Green-e Energy eligible biomass generation plant or biomass boiler;
- 2) I attest that this facility was in substantial compliance with its operating permit regarding emissions during the Period of Generation reported above;
- 3) I attest that if this facility is subject to New Source Review (NSR), it was compliant with all standards pertaining to NSR during the period of generation reported above; and
- 4) I attest that Seller owned the renewable and environmental attributes of the biomass fuels I have listed in the table below at the time of the fuel's use for electricity generation.

Biomass Fuel Type	Facility that Produced Fuel or Origin/Source of Fuel

V. Signature

As an authorized agent of Seller, I attest that the above statements are true and correct.



Signature

1/25/18
Date

Place of Execution

This Attestation form is used by the Center for Resource Solutions to verify the accuracy of claims made by Participant renewable energy providers. The information on this form is held strictly confidential and will not be shared with any other party except in aggregate form.

Fuel Type ⁵	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind		01/2017
Wind		02/2017
Wind		03/2017

III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the renewable electricity (electricity bundled with renewable attributes) / renewable attributes only⁶ (check one) generated by Facility during the Period of Generation were sold exclusively from Seller to The Empire District Electric Company ("Purchaser").

I further declare that:

- 1) all the renewable attributes (including CO₂ benefits), including any emissions offsets, reductions or claims, represented by the renewable electricity generation listed above were transferred to Purchaser;
- 2) to the best of my knowledge, the renewable attributes were not sold, marketed or otherwise claimed by a third party other than Purchaser;
- 3) Seller sold the renewable attributes only once;
- 4) the renewable attributes or the electricity that was generated with the attributes was not used to meet any federal, state or local renewable energy requirement, renewable energy procurement, renewable portfolio standard, or other renewable energy mandate by Seller, nor to the best of my knowledge, by any other entity other than Purchaser;⁷
- 5) the renewable electricity sold or electricity associated with the attributes sold was not used on-site for powering electric generation equipment (parasitic load);
- 6) if Purchaser is receiving electricity bundled with renewable attributes from Seller, the renewable electricity was delivered into the NERC region in which Facility is located;
- 7) if Facility is located in Canada, it is EcoLogo certified and was throughout the Period of Generation; and
- 8) the electricity that was generated with the attributes was not separately sold, separately marketed or otherwise separately represented as renewable energy by Seller, or, to the best of my knowledge, any other entity other than Purchaser.

⁵ If using biomass fuels, list out the specific type (i.e. landfill gas, wood waste, etc.) and fill in section IV below.

⁶ If selling renewable attributes to Purchaser without electricity, please fill in the name of the load serving entity buying the undifferentiated electricity, if applicable, at the bottom of this Declaration section.

⁷ Renewable attributes used by Purchaser for any of the purposes listed in 4) are ineligible for Green-e Energy certification.



Energy

GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

I. Facility information

Name of Generation Facility ("Facility"): Meridian Way Wind Farm

Company or Person that Owns Facility ("Seller"): Cloud County Wind Farm, LLC

Address of Facility: 1409 Iron Road, Suite A Concordia, KS 66901

North American Electricity Reliability Corporation (NERC) region in which Facility is located:¹ SPP

Facility ID Number:² 56784 EIA or QF? (check one) Nameplate Capacity (MW): 105

Date Facility was First Operational: 12/05/2008 Date of Capacity Upgrade or Repowering:³ ___/___/___

Contact Person: Daniel Saldanha Title: Settlements Manager

Telephone: 713-356-2568

Email Address: daniel.saldanha@edpr.com

II. Renewable electricity or RECs⁴ supplied to Purchaser indicated below, by fuel type

On the table below, list the renewable megawatt-hours (MWh) sold or transferred to Purchaser, broken down by quarter of generation in separate rows:

¹ If you are unsure of which region Facility is in, see <http://www.nerc.com/regional/>.

² Enter Energy Information Administration (EIA) identification number for the generating facility; if no EIA number, enter the utility-assigned Qualifying Facility (QF) identification number.

³ If applicable. Repowered facilities must meet Green-e Energy's criteria for repowering, available at http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc

⁴ Renewable Energy Certificates, which represent the renewable attributes of 1 MWh of renewable electricity generation.

Please indicate the following:

Is Facility owner reporting its direct greenhouse gas emissions in a legally binding cap and trade program for the time period of generation listed on this form?

- Yes;⁸ list the cap and trade program: _____
 No

If Seller is providing only RECs to Purchaser and selling the associated electricity to a utility or load-serving entity, please write the name of the utility or load-serving entity here: _____

Check box if sale is part of a Qualifying Facility (QF) contract

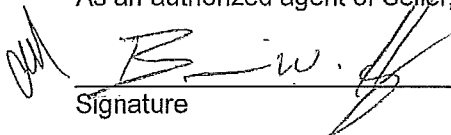
IV. Additional statement required for and applicable to biomass facilities only

- 1) I attest that no more than five percent (5%) fossil fuels and other fuels that are not Green-e Energy eligible, measured on a BTU basis, were used, including as a start-up, pilot or supplemental fuel, to produce the electricity and/or RECs in the above Green-e Energy eligible biomass generation plant or biomass boiler;
- 2) I attest that this facility was in substantial compliance with its operating permit regarding emissions during the Period of Generation reported above;
- 3) I attest that if this facility is subject to New Source Review (NSR), it was compliant with all standards pertaining to NSR during the period of generation reported above; and
- 4) I attest that Seller owned the renewable and environmental attributes of the biomass fuels I have listed in the table below at the time of the fuel's use for electricity generation.

Biomass Fuel Type	Facility that Produced Fuel or Origin/Source of Fuel

V. Signature

As an authorized agent of Seller, I attest that the above statements are true and correct.


Signature

4/13/2012
Date

Houston, TX
Place of Execution

This Attestation form is used by the Center for Resource Solutions to verify the accuracy of claims made by Participant renewable energy providers. The information on this form is held strictly confidential and will not be shared with any other party except in aggregate form.

⁸ In this case the renewable energy or RECs reported on this form may be ineligible for Green-e Energy certification. For more information, contact Green-e Energy Staff at 415-561-2100.



Energy

GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

I. Facility information

Name of Generation Facility ("Facility"): Meridian Way Wind Farm

Company or Person that Owns Facility ("Seller"): Cloud County Wind Farm, LLC

Address of Facility: 1409 Iron Road, Suite A Concordia, KS 66901

North American Electricity Reliability Corporation (NERC) region in which Facility is located:¹ SPP

Facility ID Number:² 56784 EIA or QF? (check one) Nameplate Capacity (MW): 105

Date Facility was First Operational: 12/05/2008 Date of Capacity Upgrade or Repowering:³ ___/___/___

Contact Person: Adrian Dever Title: Settlements Analyst

Telephone: (713) 428-6766 Email Address: adrian.dever@edpr.com

II. Renewable electricity or RECs⁴ supplied to Purchaser indicated below, by fuel type

On the table below, list the renewable megawatt-hours (MWh) sold or transferred to Purchaser, broken down by quarter of generation in separate rows:

¹ If you are unsure of which region Facility is in, see <http://www.nerc.com/regional/>

² Enter Energy Information Administration (EIA) identification number for the generating facility; if no EIA number, enter the utility-assigned Qualifying Facility (QF) identification number.

³ If applicable. Repowered facilities must meet Green-e Energy's criteria for repowering, available at http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc

⁴ Renewable Energy Certificates, which represent the renewable attributes of 1 MWh of renewable electricity generation.

Fuel Type ⁵	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind		04/2017
Wind		05/2017
Wind		06/2017

III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the renewable electricity (electricity bundled with renewable attributes) / renewable attributes only⁶ (check one) generated by Facility during the Period of Generation were sold exclusively from Seller to The Empire District Electric Company ("Purchaser").

I further declare that:

- 1) all the renewable attributes (including CO₂ benefits), including any emissions offsets, reductions or claims, represented by the renewable electricity generation listed above were transferred to Purchaser;
- 2) to the best of my knowledge, the renewable attributes were not sold, marketed or otherwise claimed by a third party other than Purchaser;
- 3) Seller sold the renewable attributes only once;
- 4) the renewable attributes or the electricity that was generated with the attributes was not used to meet any federal, state or local renewable energy requirement, renewable energy procurement, renewable portfolio standard, or other renewable energy mandate by Seller, nor to the best of my knowledge, by any other entity other than Purchaser;⁷
- 5) the renewable electricity sold or electricity associated with the attributes sold was not used on-site for powering electric generation equipment (parasitic load);
- 6) if Purchaser is receiving electricity bundled with renewable attributes from Seller, the renewable electricity was delivered into the NERC region in which Facility is located;
- 7) if Facility is located in Canada, it is EcoLogo certified and was throughout the Period of Generation; and
- 8) the electricity that was generated with the attributes was not separately sold, separately marketed or otherwise separately represented as renewable energy by Seller, or, to the best of my knowledge, any other entity other than Purchaser.

⁵ If using biomass fuels, list out the specific type (i.e. landfill gas, wood waste, etc.) and fill in section IV below.

⁶ If selling renewable attributes to Purchaser without electricity, please fill in the name of the load serving entity buying the undifferentiated electricity, if applicable, at the bottom of this Declaration section.

⁷ Renewable attributes used by Purchaser for any of the purposes listed in 4) are ineligible for Green-e Energy certification.

Please indicate the following:

Is Facility owner reporting its direct greenhouse gas emissions in a legally binding cap and trade program for the time period of generation listed on this form?

- Yes;⁸ list the cap and trade program: _____
 No

If Seller is providing only RECs to Purchaser and selling the associated electricity to a utility or load-serving entity, please write the name of the utility or load-serving entity here: _____

Check box if sale is part of a Qualifying Facility (QF) contract

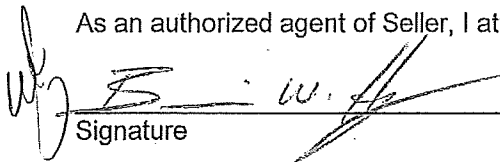
IV. Additional statement required for and applicable to biomass facilities only

- 1) I attest that no more than five percent (5%) fossil fuels and other fuels that are not Green-e Energy eligible, measured on a BTU basis, were used, including as a start-up, pilot or supplemental fuel, to produce the electricity and/or RECs in the above Green-e Energy eligible biomass generation plant or biomass boiler;
- 2) I attest that this facility was in substantial compliance with its operating permit regarding emissions during the Period of Generation reported above;
- 3) I attest that if this facility is subject to New Source Review (NSR), it was compliant with all standards pertaining to NSR during the period of generation reported above; and
- 4) I attest that Seller owned the renewable and environmental attributes of the biomass fuels I have listed in the table below at the time of the fuel's use for electricity generation.

Biomass Fuel Type	Facility that Produced Fuel or Origin/Source of Fuel

V. Signature

As an authorized agent of Seller, I attest that the above statements are true and correct.


Signature

7/24/2012
Date

Houston, TX
Place of Execution

This Attestation form is used by the Center for Resource Solutions to verify the accuracy of claims made by Participant renewable energy providers. The information on this form is held strictly confidential and will not be shared with any other party except in aggregate form.

⁸ In this case the renewable energy or RECs reported on this form may be ineligible for Green-e Energy certification. For more information, contact Green-e Energy Staff at 415-561-2100.



Energy

GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

I. Facility information

Name of Generation Facility ("Facility"): Meridian Way Wind Farm

Company or Person that Owns Facility ("Seller"): Cloud County Wind Farm, LLC

Address of Facility: 1409 Iron Road, Suite A Concordia, KS 66901

North American Electricity Reliability Corporation (NERC) region in which Facility is located:¹ SPP

Facility ID Number:² 56784 EIA or QF? (check one) Nameplate Capacity (MW): 105

Date Facility was First Operational: 12/05/2008 Date of Capacity Upgrade or Repowering:³ ___/___/___

Contact Person: Adrian Dever Title: Settlements Analyst

Telephone: (713) 428-6766 Email Address: adrian.dever@edpr.com

II. Renewable electricity or RECs⁴ supplied to Purchaser indicated below, by fuel type

On the table below, list the renewable megawatt-hours (MWh) sold or transferred to Purchaser, broken down by quarter of generation in separate rows:

¹ If you are unsure of which region Facility is in, see <http://www.nerc.com/regional/>

² Enter Energy Information Administration (EIA) identification number for the generating facility; if no EIA number, enter the utility-assigned Qualifying Facility (QF) identification number.

³ If applicable. Repowered facilities must meet Green-e Energy's criteria for repowering, available at http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc

⁴ Renewable Energy Certificates, which represent the renewable attributes of 1 MWh of renewable electricity generation.

Fuel Type ⁵	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind		07/2017
Wind		08/2017
Wind		09/2017

III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the renewable electricity (electricity bundled with renewable attributes) / renewable attributes only⁶ (check one) generated by Facility during the Period of Generation were sold exclusively from Seller to The Empire District Electric Company ("Purchaser").

I further declare that:

- 1) all the renewable attributes (including CO₂ benefits), including any emissions offsets, reductions or claims, represented by the renewable electricity generation listed above were transferred to Purchaser;
- 2) to the best of my knowledge, the renewable attributes were not sold, marketed or otherwise claimed by a third party other than Purchaser;
- 3) Seller sold the renewable attributes only once;
- 4) the renewable attributes or the electricity that was generated with the attributes was not used to meet any federal, state or local renewable energy requirement, renewable energy procurement, renewable portfolio standard, or other renewable energy mandate by Seller, nor to the best of my knowledge, by any other entity other than Purchaser;⁷
- 5) the renewable electricity sold or electricity associated with the attributes sold was not used on-site for powering electric generation equipment (parasitic load);
- 6) if Purchaser is receiving electricity bundled with renewable attributes from Seller, the renewable electricity was delivered into the NERC region in which Facility is located;
- 7) if Facility is located in Canada, it is EcoLogo certified and was throughout the Period of Generation; and
- 8) the electricity that was generated with the attributes was not separately sold, separately marketed or otherwise separately represented as renewable energy by Seller, or, to the best of my knowledge, any other entity other than Purchaser.

⁵ If using biomass fuels, list out the specific type (i.e. landfill gas, wood waste, etc.) and fill in section IV below.

⁶ If selling renewable attributes to Purchaser without electricity, please fill in the name of the load serving entity buying the undifferentiated electricity, if applicable, at the bottom of this Declaration section.

⁷ Renewable attributes used by Purchaser for any of the purposes listed in 4) are ineligible for Green-e Energy certification.

Please indicate the following:

Is Facility owner reporting its direct greenhouse gas emissions in a legally binding cap and trade program for the time period of generation listed on this form?

- Yes;⁸ list the cap and trade program: _____
 No

If Seller is providing only RECs to Purchaser and selling the associated electricity to a utility or load-serving entity, please write the name of the utility or load-serving entity here: _____

- Check box if sale is part of a Qualifying Facility (QF) contract

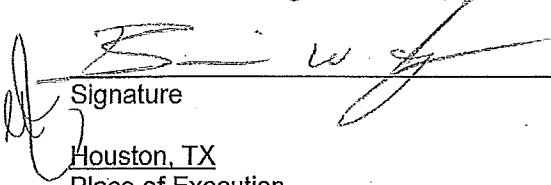
IV. Additional statement required for and applicable to biomass facilities only

- 1) I attest that no more than five percent (5%) fossil fuels and other fuels that are not Green-e Energy eligible, measured on a BTU basis, were used, including as a start-up, pilot or supplemental fuel, to produce the electricity and/or RECs in the above Green-e Energy eligible biomass generation plant or biomass boiler;
- 2) I attest that this facility was in substantial compliance with its operating permit regarding emissions during the Period of Generation reported above;
- 3) I attest that if this facility is subject to New Source Review (NSR), it was compliant with all standards pertaining to NSR during the period of generation reported above; and
- 4) I attest that Seller owned the renewable and environmental attributes of the biomass fuels I have listed in the table below at the time of the fuel's use for electricity generation.

Biomass Fuel Type	Facility that Produced Fuel or Origin/Source of Fuel

V. Signature

As an authorized agent of Seller, I attest that the above statements are true and correct.



Signature
Houston, TX
Place of Execution

10/26/2017
Date

This Attestation form is used by the Center for Resource Solutions to verify the accuracy of claims made by Participant renewable energy providers. The information on this form is held strictly confidential and will not be shared with any other party except in aggregate form.

⁸ In this case the renewable energy or RECs reported on this form may be ineligible for Green-e Energy certification. For more information, contact Green-e Energy Staff at 415-561-2100.



Energy

GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

I. Facility information

Name of Generation Facility ("Facility"): Meridian Way Wind Farm

Company or Person that Owns Facility ("Seller"): Cloud County Wind Farm, LLC

Address of Facility: 1409 Iron Road, Suite A Concordia, KS 66901

North American Electricity Reliability Corporation (NERC) region in which Facility is located:¹ SPP

Facility ID Number:² 56784 EIA or QF? (check one) Nameplate Capacity (MW): 105

Date Facility was First Operational: 12/05/2008 Date of Capacity Upgrade or Repowering:³ / /

Contact Person: Adrian Dever Title: Settlements Analyst

Telephone: (713) 428-6766 Email Address: adrian.dever@edpr.com

II. Renewable electricity or RECs⁴ supplied to Purchaser indicated below, by fuel type

On the table below, list the renewable megawatt-hours (MWh) sold or transferred to Purchaser, broken down by quarter of generation in separate rows:

¹ If you are unsure of which region Facility is in, see <http://www.nerc.com/regional/>

² Enter Energy Information Administration (EIA) identification number for the generating facility; if no EIA number, enter the utility-assigned Qualifying Facility (QF) identification number.

³ If applicable. Repowered facilities must meet Green-e Energy's criteria for repowering, available at http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc

⁴ Renewable Energy Certificates, which represent the renewable attributes of 1 MWh of renewable electricity generation.



Fuel Type ⁵	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind		10/2017
Wind		11/2017
Wind		12/2017

III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the renewable electricity (electricity bundled with renewable attributes) / renewable attributes only⁶ (check one) generated by Facility during the Period of Generation were sold exclusively from Seller to The Empire District Electric Company ("Purchaser").

I further declare that:

- 1) all the renewable attributes (including CO₂ benefits), including any emissions offsets, reductions or claims, represented by the renewable electricity generation listed above were transferred to Purchaser;
- 2) to the best of my knowledge, the renewable attributes were not sold, marketed or otherwise claimed by a third party other than Purchaser;
- 3) Seller sold the renewable attributes only once;
- 4) the renewable attributes or the electricity that was generated with the attributes was not used to meet any federal, state or local renewable energy requirement, renewable energy procurement, renewable portfolio standard, or other renewable energy mandate by Seller, nor to the best of my knowledge, by any other entity other than Purchaser;⁷
- 5) the renewable electricity sold or electricity associated with the attributes sold was not used on-site for powering electric generation equipment (parasitic load);
- 6) if Purchaser is receiving electricity bundled with renewable attributes from Seller, the renewable electricity was delivered into the NERC region in which Facility is located;
- 7) if Facility is located in Canada, it is EcoLogo certified and was throughout the Period of Generation; and
- 8) the electricity that was generated with the attributes was not separately sold, separately marketed or otherwise separately represented as renewable energy by Seller, or, to the best of my knowledge, any other entity other than Purchaser.

⁵ If using biomass fuels, list out the specific type (i.e. landfill gas, wood waste, etc.) and fill in section IV below.
⁶ If selling renewable attributes to Purchaser without electricity, please fill in the name of the load serving entity buying the undifferentiated electricity, if applicable, at the bottom of this Declaration section.
⁷ Renewable attributes used by Purchaser for any of the purposes listed in 4) are ineligible for Green-e Energy certification.



Please indicate the following:

Is Facility owner reporting its direct greenhouse gas emissions in a legally binding cap and trade program for the time period of generation listed on this form?

- Yes;⁸ list the cap and trade program: _____
 No

If Seller is providing only RECs to Purchaser and selling the associated electricity to a utility or load-serving entity, please write the name of the utility or load-serving entity here: _____

Check box if sale is part of a Qualifying Facility (QF) contract

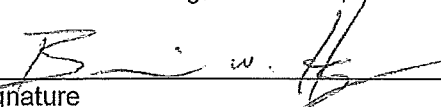
IV. Additional statement required for and applicable to biomass facilities only

- 1) I attest that no more than five percent (5%) fossil fuels and other fuels that are not Green-e Energy eligible, measured on a BTU basis, were used, including as a start-up, pilot or supplemental fuel, to produce the electricity and/or RECs in the above Green-e Energy eligible biomass generation plant or biomass boiler;
- 2) I attest that this facility was in substantial compliance with its operating permit regarding emissions during the Period of Generation reported above;
- 3) I attest that if this facility is subject to New Source Review (NSR), it was compliant with all standards pertaining to NSR during the period of generation reported above; and
- 4) I attest that Seller owned the renewable and environmental attributes of the biomass fuels I have listed in the table below at the time of the fuel's use for electricity generation.

Biomass Fuel Type	Facility that Produced Fuel or Origin/Source of Fuel

V. Signature

As an authorized agent of Seller, I attest that the above statements are true and correct.


Signature

11/18/2018
Date

Houston, TX
Place of Execution

This Attestation form is used by the Center for Resource Solutions to verify the accuracy of claims made by Participant renewable energy providers. The information on this form is held strictly confidential and will not be shared with any other party except in aggregate form.

⁸ In this case the renewable energy or RECs reported on this form may be ineligible for Green-e Energy certification. For more information, contact Green-e Energy Staff at 415-561-2100.

ATTACHMENT 7: SOLAR CUSTOMER NET GENERATION TOTAL 2017

SOLAR 2017 SYSTEMS

OPERATIONAL DATE	END OF REBATE	ZIP CODE	NARR AGG SUBACCOUNT	ANNUAL SRECS	NARR SUBACCOUNT TOTAL
1/26/2017	1/26/2027	64804	AGG2516		12.68
1/10/2017	1/10/2027	64804	AGG2516		14.29
1/26/2017	1/26/2027	64862	AGG2516		10.16
3/9/2017	3/9/2027	64801	AGG2516		6.27
1/9/2017	1/9/2027	64850	AGG2516		12.14
1/23/2017	1/23/2027	65738	AGG2516		5.64
2/17/2017	2/17/2027	65767	AGG2516		27.60
2/17/2017	2/17/2027	65622	AGG2516		27.60
3/7/2017	3/7/2027	65613	AGG2516		12.91
4/24/2017	4/24/2027	64870	AGG2516		11.84
2/15/2017	2/15/2027	65679	AGG2516		17.50
4/25/2017	4/25/2027	65734	AGG2516		7.29
3/27/2017	3/27/2027	65668	AGG2516		9.61
1/18/2017	1/18/2027	65721	AGG2516		6.51
4/4/2017	4/4/2027	65781	AGG2516		8.79
2/15/2017	2/15/2027	64870	AGG2516		20.91
2/3/2017	2/3/2027	64850	AGG2516		10.35
4/25/2017	4/25/2027	65756	AGG2516		13.85
2/22/2017	2/22/2027	65803	AGG2516		12.00
1/30/2017	1/30/2027	64870	AGG2516		5.74
2/14/2017	2/14/2027	65721	AGG2516		9.70
2/13/2017	2/13/2027	64804	AGG2516		7.24
3/27/2017	3/27/2027	65721	AGG2516		11.91
1/9/2017	1/9/2027	64804	AGG2516		14.95
2/2/2017	2/2/2027	65613	AGG2516		9.82
1/11/2017	1/11/2027	64755	AGG2516		13.17
4/10/2017	4/10/2027	64834	AGG2516		11.10
1/23/2017	1/23/2027	65616	AGG2516		7.33
2/2/2017	2/2/2027	65674	AGG2516		9.29
3/10/2017	3/10/2027	64865	AGG2516		20.63
4/17/2017	4/17/2027	64801	AGG2516		7.92
1/19/2017	1/19/2027	64834	AGG2516		8.74
2/17/2017	2/17/2027	65721	AGG2516		5.05
3/14/2017	3/14/2027	65605	AGG2516		15.38
4/13/2017	4/13/2027	65721	AGG2516		10.02
1/6/2017	1/6/2027	64836	AGG2516		23.42
2/1/2017	2/1/2027	64841	AGG2516		3.77
1/23/2017	1/23/2027	64873	AGG2516		19.57
4/17/2017	4/17/2027	64801	AGG2516		4.71

2/17/2017	2/17/2027	65738	AGG2516	7.79
1/6/2017	1/6/2027	64850	AGG2516	8.93
2/2/2017	2/2/2027	64738	AGG2516	11.31
4/6/2017	4/6/2027	65613	AGG2516	8.92
1/25/2017	1/25/2027	65672	AGG2516	7.03
1/4/2017	1/4/2027	64850	AGG2516	13.07
2/1/2017	2/1/2027	64804	AGG2516	15.04
4/24/2017	4/24/2027	65712	AGG2516	7.19
4/10/2017	4/10/2027	64801	AGG2516	12.03
1/23/2017	1/23/2027	64804	AGG2516	13.61
2/15/2017	2/15/2027	65616	AGG2516	27.71
2/15/2017	2/15/2027	65616	AGG2516	27.71
2/15/2017	2/15/2027	65616	AGG2516	27.71
2/1/2017	2/1/2027	64804	AGG2516	8.69
4/4/2017	4/4/2027	65613	AGG2516	8.48
3/9/2017	3/9/2027	65721	AGG2516	17.65
2/13/2017	2/13/2027	65663	AGG2516	9.75
3/9/2017	3/9/2027	64804	AGG2516	26.29
1/27/2017	1/27/2027	65721	AGG2516	6.82
1/9/2017	1/9/2027	64834	AGG2516	10.95
1/18/2017	1/18/2027	65721	AGG2516	14.72
3/10/2017	3/10/2027	64850	AGG2516	12.90
3/31/2017	3/31/2027	64844	AGG2516	14.04
4/13/2017	4/13/2027	65674	AGG2516	7.42
1/18/2017	1/18/2027	65721	AGG2516	15.41
2/15/2017	2/15/2027	65656	AGG2516	4.35
2/15/2017	2/15/2027	65656	AGG2516	17.58
1/19/2017	1/19/2027	64804	AGG2516	14.92
3/9/2017	3/9/2027	64804	AGG2516	11.74
3/15/2017	3/15/2027	65738	AGG2516	7.71
3/15/2017	3/15/2027	65738	AGG2516	6.48
3/9/2017	3/9/2027	64801	AGG2516	1.66
1/9/2017	1/9/2027	65605	AGG2516	16.87
3/17/2017	3/17/2027	65661	AGG2516	5.82
1/16/2017	1/16/2027	65610	AGG2516	8.64
1/18/2017	1/18/2027	65721	AGG2516	6.21
3/31/2017	3/31/2027	65738	AGG2516	6.04
3/29/2017	3/29/2027	65617	AGG2516	9.48
4/12/2017	4/12/2027	64870	AGG2516	8.81
2/1/2017	2/1/2027	65781	AGG2516	9.34
2/1/2017	2/1/2027	64836	AGG2516	16.54
4/20/2017	4/20/2027	64834	AGG2516	6.04
1/9/2017	1/9/2027	65605	AGG2516	19.82
1/20/2017	1/20/2027	64804	AGG2516	13.97
1/4/2017	1/4/2027	65738	AGG2516	8.45
4/11/2017	4/11/2027	64870	AGG2516	2.03
1/9/2017	1/9/2027	64804	AGG2516	9.81

1/23/2017	1/23/2027	65653	AGG2516	11.20
3/23/2017	3/23/2027	64804	AGG2516	5.96
3/2/2017	3/2/2027	65616	AGG2516	9.07
4/7/2017	4/7/2027	65753	AGG2516	2.54
7/6/2017	7/6/2027	64804	AGG2517	6.46
8/11/2017	8/11/2027	65648	AGG2517	4.02
5/12/2017	5/12/2027	65781	AGG2517	6.21
5/16/2017	5/16/2027	65738	AGG2517	12.29
4/26/2017	4/26/2027	65774	AGG2517	14.37
6/7/2017	6/7/2027	64801	AGG2517	5.32
7/10/2017	7/10/2027	65757	AGG2517	4.64
8/14/2017	8/14/2027	64850	AGG2517	3.65
6/19/2017	6/19/2027	65679	AGG2517	5.57
5/23/2017	5/23/2027	65781	AGG2517	2.62
7/24/2017	7/24/2027	65613	AGG2517	5.10
6/12/2017	6/12/2027	65721	AGG2517	5.64
6/6/2017	6/6/2027	64870	AGG2517	8.98
4/27/2017	4/27/2027	65616	AGG2517	14.44
5/2/2017	5/2/2027	64865	AGG2517	9.63
7/25/2017	7/25/2027	64801	AGG2517	2.97
7/14/2017	7/14/2027	64850	AGG2517	6.11
5/19/2017	5/19/2027	65610	AGG2517	6.01
6/13/2017	6/13/2027	65656	AGG2517	5.73
7/17/2017	7/17/2027	64801	AGG2517	5.24
6/27/2017	6/27/2027	65613	AGG2517	5.71
7/26/2017	7/26/2027	64801	AGG2517	3.61
7/5/2017	7/5/2027	65781	AGG2517	6.39
5/23/2017	5/23/2027	65781	AGG2517	9.65
5/24/2017	5/24/2027	64858-	AGG2517	1.04
5/9/2017	5/9/2027	65622	AGG2517	5.31
6/15/2017	6/15/2027	64804	AGG2517	12.85
6/7/2017	6/7/2027	65785	AGG2517	3.70
5/19/2017	5/19/2027	64804	AGG2517	3.36
5/2/2017	5/2/2027	64836	AGG2517	14.95
6/22/2017	6/22/2027	65781	AGG2517	4.50
8/1/2017	8/1/2027	65781	AGG2517	3.92
6/27/2017	6/27/2027	65613	AGG2517	7.09
6/15/2017	6/15/2027	65679	AGG2517	6.53
6/16/2017	6/16/2027	65738	AGG2517	4.22
6/19/2017	6/19/2027	64801	AGG2517	4.77
7/10/2017	7/10/2027	65605	AGG2517	5.40
7/13/2017	7/13/2027	65613	AGG2517	7.23
5/4/2017	5/4/2027	64801	AGG2517	5.01
6/21/2017	6/21/2027	64801	AGG2517	5.94
5/2/2017	5/2/2027	64854	AGG2517	12.51
5/5/2017	5/5/2027	65605	AGG2517	7.32

1049.64

6/15/2017	6/15/2027	64840	AGG2517	0.98
7/12/2017	7/12/2027	64831	AGG2517	9.38
8/2/2017	8/2/2027	65721	AGG2517	3.95
7/18/2017	7/18/2027	64755	AGG2517	2.24
6/6/2017	6/6/2027	64801	AGG2517	12.21
7/28/2017	7/28/2027	65605	AGG2517	3.04
7/28/2017	7/28/2027	64840	AGG2517	4.91
7/25/2017	7/25/2027	64870	AGG2517	2.58
5/2/2017	5/2/2027	65757	AGG2517	8.75
5/2/2017	5/2/2027	64801	AGG2517	8.18
7/18/2017	7/18/2027	64804	AGG2517	5.33
5/5/2017	5/5/2027	65723	AGG2517	21.36
7/10/2017	7/10/2027	65738	AGG2517	3.60
8/2/2017	8/2/2027	65721	AGG2517	4.13
8/9/2017	8/9/2027	64855	AGG2517	5.21
5/15/2017	5/15/2027	65781	AGG2517	8.17
5/4/2017	5/4/2027	64804	AGG2517	7.99
4/25/2017	4/25/2027	64850	AGG2517	7.91
7/20/2017	7/20/2027	65616	AGG2517	3.35
6/6/2017	6/6/2027	64870	AGG2517	7.74
7/20/2017	7/20/2027	65707	AGG2517	6.41
7/10/2017	7/10/2027	65714	AGG2517	5.40
7/10/2017	7/10/2027	65605	AGG2517	4.52
7/25/2017	7/25/2027	65738	AGG2517	4.28
8/14/2017	8/14/2027	65613	AGG2517	4.89
6/19/2017	6/19/2027	64870	AGG2517	5.33
7/24/2017	7/24/2027	65781	AGG2517	4.12
5/23/2017	5/23/2027	65781	AGG2517	8.26
6/15/2017	6/15/2027	65604	AGG2517	2.75
6/15/2017	6/15/2027	65661	AGG2517	4.72
8/2/2017	8/2/2027	64644	AGG2517	3.34
5/12/2017	5/12/2027	64836	AGG2517	10.01
6/6/2017	6/6/2027	64836	AGG2517	8.69
6/1/2017	6/1/2027	65604	AGG2517	8.93
4/25/2017	4/25/2027	65672	AGG2517	7.04
7/31/2017	7/31/2027	64850	AGG2517	8.81
6/22/2017	6/22/2027	65616	AGG2517	5.36
7/10/2017	7/10/2027	64804	AGG2517	3.06
6/15/2017	6/15/2027	64862	AGG2517	5.24
6/12/2017	6/12/2027	65648	AGG2517	5.12
6/6/2017	6/6/2027	65757	AGG2517	7.98
7/10/2017	7/10/2027	64804	AGG2517	8.56
6/28/2017	6/28/2027	64801	AGG2517	12.32
6/29/2017	6/29/2027	65738	AGG2517	4.63
7/13/2017	7/13/2027	65668	AGG2517	5.89
5/11/2017	5/11/2027	65721	AGG2517	13.67
7/17/2017	7/17/2027	64831	AGG2517	5.35

4/25/2017	4/25/2027	65616	AGG2517	7.41
5/2/2017	5/2/2027	65708	AGG2517	12.80
6/30/2017	6/30/2027	64865	AGG2517	7.50
7/24/2017	7/24/2027	64748	AGG2517	4.85
7/10/2017	7/10/2027	65738	AGG2517	5.40
5/15/2017	5/15/2027	65738	AGG2517	2.96
6/6/2017	6/6/2027	65648	AGG2517	5.64
7/26/2017	7/26/2027	65616	AGG2517	3.91
5/16/2017	5/16/2027	65633	AGG2517	14.66
5/19/2017	5/19/2027	64801	AGG2517	8.29
5/19/2017	5/19/2027	64801	AGG2517	1.81

656.89

9/25/2017	9/25/2027	65752	AGG2560	1.30
10/19/2017	10/19/2027	64801	AGG2560	2.89
8/30/2017	8/30/2027	64804	AGG2560	2.68
10/24/2017	10/24/2027	65721	AGG2560	1.10
9/29/2017	9/29/2027	64804	AGG2560	0.90
9/7/2017	9/7/2027	64850	AGG2560	3.79
9/26/2017	9/26/2027	65708	AGG2560	2.64
9/19/2017	9/19/2027	65668	AGG2560	7.46
10/3/2017	10/3/2027	64801	AGG2560	2.82
8/18/2017	8/18/2027	65622	AGG2560	4.06
10/6/2017	10/6/2027	64834	AGG2560	1.62
10/16/2017	10/16/2027	64801	AGG2560	1.55
8/24/2017	8/24/2027	65738	AGG2560	3.77
10/23/2017	10/23/2027	65738	AGG2560	0.51
9/21/2017	9/21/2027	65718	AGG2560	1.99
9/28/2017	9/28/2027	65622	AGG2560	1.98
9/26/2017	9/26/2027	64834	AGG2560	1.37
10/13/2017	10/13/2027	65616	AGG2560	1.26
9/11/2017	9/11/2027	65753	AGG2560	5.79
9/8/2017	9/8/2027	65613	AGG2560	4.41
10/24/2017	10/24/2027	65757	AGG2560	1.75
9/26/2017	9/26/2027	64748	AGG2560	1.85
9/15/2017	9/15/2027	64801	AGG2560	7.17
8/24/2017	8/24/2027	65774	AGG2560	6.10
9/29/2017	9/29/2027	64835	AGG2560	3.56
10/11/2017	10/11/2027	64804	AGG2560	1.05
9/25/2017	9/25/2027	64804	AGG2560	1.10
10/6/2017	10/6/2027	64870	AGG2560	3.07
9/26/2017	9/26/2027	64834	AGG2560	4.92
9/29/2017	9/29/2027	65781	AGG2560	2.37
8/28/2017	8/28/2027	64850	AGG2560	3.30
9/21/2017	9/21/2027	65738	AGG2560	2.88
8/25/2017	8/25/2027	64748	AGG2560	4.26
10/3/2017	10/3/2027	64801	AGG2560	1.57
9/7/2017	9/7/2027	64801	AGG2560	5.12

8/29/2017	8/29/2027	65616	AGG2560	3.95
10/12/2017	10/12/2027	64831	AGG2560	2.48
9/12/2017	9/12/2027	64836	AGG2560	2.92
9/18/2017	9/18/2027	64804	AGG2560	3.95
10/23/2017	10/23/2027	65605	AGG2560	0.91
10/30/2017	10/30/2027	64836	AGG2560	1.98
8/21/2017	8/21/2027	65610	AGG2560	5.93
10/24/2017	10/24/2027	65714	AGG2560	1.84
10/31/2017	10/31/2027	65622	AGG2560	1.12
10/31/2017	10/31/2027	65622	AGG2560	3.27
10/16/2017	10/16/2027	64850	AGG2560	0.49
9/29/2017	9/29/2027	64824	AGG2560	1.31
10/10/2017	10/10/2027	64834	AGG2560	3.53
10/20/2017	10/20/2027	64804	AGG2560	2.14
9/8/2017	9/8/2027	65781	AGG2560	4.08
10/23/2017	10/23/2027	64748	AGG2560	1.94
10/27/2017	10/27/2027	64834	AGG2560	1.38
8/30/2017	8/30/2027	65661	AGG2560	2.47
10/31/2017	10/31/2027	65622	AGG2560	3.27
10/9/2017	10/9/2027	64804	AGG2560	2.32
9/19/2017	9/19/2027	64865	AGG2560	2.69
8/24/2017	8/24/2027	65617	AGG2560	4.61
9/25/2017	9/25/2027	64804	AGG2560	2.12
8/24/2017	8/24/2027	64870	AGG2560	3.94
9/22/2017	9/22/2027	65738	AGG2560	6.89
9/11/2017	9/11/2027	65721	AGG2560	2.25
10/5/2017	10/5/2027	64801	AGG2560	2.33
10/24/2017	10/24/2027	65721	AGG2560	0.91
9/25/2017	9/25/2027	65707	AGG2560	2.03
10/31/2017	10/31/2027	65613	AGG2560	1.85
9/14/2017	9/14/2027	65738	AGG2560	2.47
10/2/2017	10/2/2027	65721	AGG2560	4.66
10/2/2017	10/2/2027	65721	AGG2560	4.00
8/28/2017	8/28/2027	64834	AGG2560	4.06
10/23/2017	10/23/2027	65738	AGG2560	1.53
9/25/2017	9/25/2027	64804	AGG2560	1.59
9/15/2017	9/15/2027	64801	AGG2560	3.43
9/1/2017	9/1/2027	65613	AGG2560	4.15
10/13/2017	10/13/2027	65616	AGG2560	0.59
9/22/2017	9/22/2027	65738	AGG2560	2.65
10/30/2017	10/30/2027	64804	AGG2560	1.91
9/29/2017	9/29/2027	64801	AGG2560	4.01
9/29/2017	9/29/2027	64801	AGG2560	6.64
9/21/2017	9/21/2027	65738	AGG2560	2.21
10/17/2017	10/17/2027	65616	AGG2560	1.22
10/6/2017	10/6/2027	65605	AGG2560	1.84
8/30/2017	8/30/2027	65613	AGG2560	2.84

9/1/2017	9/1/2027	64850	AGG2560	3.84
9/18/2017	9/18/2027	64804	AGG2560	1.43
9/26/2017	9/26/2027	65721	AGG2560	2.62
9/28/2017	9/28/2027	65767	AGG2560	6.53
9/25/2017	9/25/2027	65610	AGG2560	3.13

252.25

12/28/2017	12/28/2027	64844	AGG2561	0.19
12/28/2017	12/28/2027	64844	AGG2561	0.19
12/28/2017	12/28/2027	64844	AGG2561	0.19
12/28/2017	12/28/2027	64844	AGG2561	0.19
12/28/2017	12/28/2027	64844	AGG2561	0.11
12/28/2017	12/28/2027	64844	AGG2561	0.19
12/28/2017	12/28/2027	64844	AGG2561	0.08
11/29/2017	11/29/2027	64804	AGG2561	0.64
11/21/2017	11/21/2027	64840	AGG2561	0.94
12/15/2017	12/15/2027	64804	AGG2561	0.64
12/14/2017	12/14/2027	65622	AGG2561	0.34
12/13/2017	12/13/2027	65616	AGG2561	0.25
11/30/2017	11/30/2027	65672	AGG2561	0.39
12/20/2017	12/20/2027	64850	AGG2561	0.38
12/5/2017	12/5/2027	64801	AGG2561	1.21
12/5/2017	12/5/2027	64850	AGG2561	0.40
12/6/2017	12/6/2027	64836	AGG2561	0.52
12/6/2017	12/6/2027	64801	AGG2561	0.59
12/5/2017	12/5/2027	65738	AGG2561	0.34
12/20/2017	12/20/2027	64836	AGG2561	0.29
12/11/2017	12/11/2027	64804	AGG2561	0.53
12/5/2017	12/5/2027	65769	AGG2561	0.62
12/12/2017	12/12/2027	64834	AGG2561	0.41
11/16/2017	11/16/2027	64850	AGG2561	0.94
12/12/2017	12/12/2027	64855	AGG2561	0.41
12/15/2017	12/15/2027	64801	AGG2561	0.26
12/14/2017	12/14/2027	65767	AGG2561	0.40
12/6/2017	12/6/2027	64804	AGG2561	0.50
12/28/2017	12/28/2027	65604	AGG2561	0.07
12/19/2017	12/19/2027	64831	AGG2561	0.17
11/6/2017	11/6/2027	65738	AGG2561	1.11
12/6/2017	12/6/2027	64801	AGG2561	0.55
12/5/2017	12/5/2027	65721	AGG2561	0.60
11/27/2017	11/27/2027	65721	AGG2561	0.52
12/5/2017	12/5/2027	65757	AGG2561	0.20
12/6/2017	12/6/2027	64801	AGG2561	0.68
12/14/2017	12/14/2027	65781	AGG2561	0.19
12/14/2017	12/14/2027	65738	AGG2561	0.35
12/12/2017	12/12/2027	64804	AGG2561	0.73
12/18/2017	12/18/2027	65672	AGG2561	0.31
11/3/2017	11/3/2027	65604	AGG2561	0.71

12/15/2017	12/15/2027	65738	AGG2561	0.29
12/20/2017	12/20/2027	65613	AGG2561	0.25
12/5/2017	12/5/2027	65721	AGG2561	1.46
12/12/2017	12/12/2027	65605	AGG2561	0.41
11/28/2017	11/28/2027	64870	AGG2561	1.14
11/20/2017	11/20/2027	64801	AGG2561	0.76
11/21/2017	11/21/2027	64804	AGG2561	1.36
11/17/2017	11/17/2027	64801	AGG2561	0.51
12/13/2017	12/13/2027	65721	AGG2561	0.73
11/30/2017	11/30/2027	64873	AGG2561	1.75
12/18/2017	12/18/2027	65721	AGG2561	0.30
11/29/2017	11/29/2027	65613	AGG2561	0.72
11/27/2017	11/27/2027	65616	AGG2561	2.02
12/15/2017	12/15/2027	64801	AGG2561	0.38
11/29/2017	11/29/2027	64834	AGG2561	1.11
12/5/2017	12/5/2027	65734	AGG2561	1.77
12/5/2017	12/5/2027	65613	AGG2561	1.07
11/2/2017	11/2/2027	64836	AGG2561	2.49

36.86

TOTAL 2017 GENERATION FOR 2017 SYSTEMS

1995.65

SOLAR 2016 SYSTEMS

OPERATIONAL DATE	END OF REBATE	ZIP CODE	NARR AGG SUBACCOUNT	NARR	
				ANNUAL SRECS	SUBACCOUNT TOTAL
2/1/2016	1/31/2026	64970	AGG2372	11.5	
1/14/2016	1/13/2026	64865	AGG2372	17.5	
1/2/2016	1/1/2026	65721	AGG2372	7.03	
1/7/2016	1/6/2026	65721	AGG2372	14.95	
2/1/2016	1/31/2026	65781	AGG2372	7.25	
2/1/2016	1/31/2026	64870	AGG2372	11.1	
1/13/2016	1/12/2026	64755	AGG2372	15.2	
1/6/2016	1/5/2026	64850	AGG2372	14.99	
1/29/2016	1/28/2026	65767	AGG2372	10.93	
1/14/2016	1/13/2026	64870	AGG2372	25.4	
1/6/2016	1/5/2026	65738	AGG2372	13.01	
1/29/2016	1/28/2026	65767	AGG2372	10.7	
1/21/2016	1/20/2026	65616	AGG2372	12.57	
1/6/2016	1/5/2026	64850	AGG2372	35.72	
1/6/2016	1/5/2026	64850	AGG2372	15.41	
1/5/2016	1/4/2026	64801	AGG2372	13.4	
1/20/2016	1/19/2026	65781	AGG2372	33.81	
1/14/2016	1/13/2026	64804	AGG2372	33.28	
1/27/2016	1/26/2026	65714	AGG2372	16.2	
1/13/2016	1/12/2026	64804	AGG2372	11.4	
1/8/2016	1/7/2026	65708	AGG2372	19.1	
1/21/2016	1/20/2026	65616	AGG2372	10.11	
1/18/2016	1/17/2026	65612	AGG2372	23.45	
1/18/2016	1/17/2026	65738	AGG2372	12.82	
1/27/2016	1/26/2026	64850	AGG2372	19.35	
1/11/2016	1/10/2026	65707	AGG2372	21.4	
1/20/2016	1/19/2026	65721	AGG2372	13.07	
1/5/2016	1/4/2026	64870	AGG2372	15.5	
1/12/2016	1/11/2026	65622	AGG2372	8.5	
1/8/2016	1/7/2026	64804	AGG2372	16.98	
1/26/2016	1/25/2026	65708	AGG2372	17.9	
1/28/2016	1/27/2026	64804	AGG2372	10.03	
1/25/2016	1/24/2026	64801	AGG2372	10.97	
1/14/2016	1/13/2026	64801	AGG2372	35.46	
1/25/2016	1/24/2026	64862	AGG2372	21.99	
1/8/2016	1/7/2026	64804	AGG2372	16.11	
1/15/2016	1/14/2026	64801	AGG2372	35.16	
1/29/2016	1/28/2026	64834	AGG2372	16.2	
1/21/2016	1/20/2026	65616	AGG2372	3.54	
1/22/2016	1/21/2026	65836	AGG2372	30.2	
1/7/2016	1/6/2026	64862	AGG2372	16.61	
1/8/2016	1/7/2026	65631	AGG2372	9.2	

1/22/2016	1/21/2026	64843 AGG2372	17.3
1/26/2016	1/25/2026	65738 AGG2372	10.73
1/15/2016	1/14/2026	65721 AGG2372	9.93
1/12/2016	1/11/2026	64834 AGG2372	18.2
1/25/2016	1/24/2026	65781 AGG2372	9.9
1/5/2016	1/4/2026	65653 AGG2372	4.61
1/12/2016	1/11/2026	64870 AGG2372	19.7
1/28/2016	1/27/2026	64801 AGG2372	31
1/19/2016	1/18/2026	64862 AGG2372	33.88
1/6/2016	1/5/2026	64801 AGG2372	33.57
1/12/2016	1/11/2026	64834 AGG2372	13.6
1/22/2016	1/21/2026	65757 AGG2372	12.1
1/19/2016	1/18/2026	65649 AGG2372	17.1
1/6/2016	1/5/2026	64850 AGG2372	24.73
1/6/2016	1/5/2026	65738 AGG2372	12.39
1/14/2016	1/13/2026	64804 AGG2372	33.27
1/5/2016	1/4/2026	65616 AGG2372	23.32
1/28/2016	1/27/2026	64804 AGG2372	7.46
1/6/2016	1/5/2026	65781 AGG2372	12.24
1/5/2016	1/4/2026	64840 AGG2372	22.4
1/29/2016	1/28/2026	65663 AGG2372	35.09
1/25/2016	1/24/2026	64862 AGG2372	14.51
1/29/2016	1/28/2026	65613 AGG2372	31.13
1/6/2016	1/5/2026	65653 AGG2372	17.65
1/8/2016	1/7/2026	65616 AGG2372	30.21
1/28/2016	1/27/2026	64804 AGG2372	8.64
1/12/2016	1/11/2026	65781 AGG2372	8.6
1/7/2016	1/6/2026	65616 AGG2372	15.38

1243.64

2/16/2016	2/15/2026	64870 AGG2375	14
2/25/2016	2/24/2026	64850 AGG2375	20.77
2/16/2016	2/15/2026	65770 AGG2375	14.11
3/1/2016	3/1/2026	65738 AGG2375	8.37
2/12/2016	2/11/2026	64804 AGG2375	7.46
3/1/2016	3/1/2026	65781 AGG2375	13.46
2/23/2016	2/22/2026	64834 AGG2375	12.42
2/5/2016	2/4/2026	65648 AGG2375	12.62
2/18/2016	2/17/2026	65757 AGG2375	17.84
2/24/2016	2/23/2026	64804 AGG2375	14.71
2/25/2016	2/24/2026	64804 AGG2375	27.45
2/17/2016	2/16/2026	64850 AGG2375	17.68
2/24/2016	2/23/2026	64804 AGG2375	21.56
2/26/2016	2/25/2026	65721 AGG2375	19.56
2/26/2016	2/25/2026	64870 AGG2375	14.71
2/19/2016	2/18/2026	65622 AGG2375	35.26
2/3/2016	2/2/2026	65738 AGG2375	10.8
3/2/2016	3/2/2026	64801 AGG2375	12.9

2/5/2016	2/4/2026	64836 AGG2375	27.8
2/15/2016	2/14/2026	65604 AGG2375	12.37
2/24/2016	2/23/2026	64836 AGG2375	32.28
2/24/2016	2/23/2026	64836 AGG2375	25.7
2/24/2016	2/23/2026	64836 AGG2375	32.28
2/24/2016	2/23/2026	64836 AGG2375	34.96
3/7/2016	3/7/2026	64801 AGG2375	23
2/17/2016	2/16/2026	64836 AGG2375	23.71
2/3/2016	2/2/2026	65649 AGG2375	19.1
3/2/2016	3/2/2026	64836 AGG2375	5.7
2/10/2016	2/9/2026	64850 AGG2375	25.34
3/1/2016	3/1/2026	64870 AGG2375	26.4
2/5/2016	2/4/2026	64804 AGG2375	10.26
2/25/2016	2/24/2026	65707 AGG2375	12.2
2/12/2016	2/11/2026	64804 AGG2375	6.88
2/2/2016	2/1/2026	65738 AGG2375	15.46
2/26/2016	2/25/2026	65781 AGG2375	26.2
2/9/2016	2/8/2026	65708 AGG2375	15.42
2/5/2016	2/4/2026	65721 AGG2375	7.2
2/22/2016	2/21/2026	64834 AGG2375	14.59
2/17/2016	2/16/2026	64855 AGG2375	13.4
2/5/2016	2/4/2026	64804 AGG2375	12.92
2/19/2016	2/18/2026	64804 AGG2375	29.63
3/1/2016	3/1/2026	65679 AGG2375	6.08
3/2/2016	3/2/2026	64804 AGG2375	15.08
3/1/2016	3/1/2026	65781 AGG2375	14.78
3/4/2016	3/4/2026	65738 AGG2375	6.55
2/12/2016	2/11/2026	65616 AGG2375	15.92
2/26/2016	2/25/2026	65757 AGG2375	10.5
2/19/2016	2/18/2026	64870 AGG2375	18
2/17/2016	2/16/2026	64844 AGG2375	19.02
2/26/2016	2/25/2026	65672 AGG2375	10.7
2/26/2016	2/25/2026	65613 AGG2375	15
2/8/2016	2/7/2026	65616 AGG2375	20.65
2/5/2016	2/4/2026	64804 AGG2375	26.83
2/24/2016	2/23/2026	65721 AGG2375	14.1
2/3/2016	2/2/2026	65661 AGG2375	27.7
2/12/2016	2/11/2026	64804 AGG2375	12.43
2/18/2016	2/17/2026	65721 AGG2375	8.35
2/10/2016	2/9/2026	65613 AGG2375	19.3
2/25/2016	2/24/2026	65616 AGG2375	15.91
2/18/2016	2/17/2026	65721 AGG2375	9.09
2/19/2016	2/18/2026	64870 AGG2375	15.25
2/24/2016	2/23/2026	64801 AGG2375	23.74
2/16/2016	2/15/2026	64801 AGG2375	16.8
2/12/2016	2/11/2026	64804 AGG2375	30.37
2/19/2016	2/18/2026	65785 AGG2375	15.2

3/4/2016	3/4/2026	65672 AGG2375	21.52
2/19/2016	2/18/2026	65613 AGG2375	20.43
3/2/2016	3/2/2026	65714 AGG2375	12.64
3/1/2016	3/1/2026	65617 AGG2375	10
2/5/2016	2/4/2026	65721 AGG2375	24.95
2/4/2016	2/3/2026	64870 AGG2375	10.3
2/26/2016	2/25/2026	65679 AGG2375	12.28
2/3/2016	2/2/2026	64836 AGG2375	21.2
2/24/2016	2/23/2026	64804 AGG2375	12.81

1281.96

4/5/2016	4/5/2026	65672 AGG2376	11.48
3/31/2016	3/31/2026	64865 AGG2376	9.98
3/18/2016	3/18/2026	65653 AGG2376	7.15
3/29/2016	3/29/2026	65721 AGG2376	11.2
4/8/2016	4/8/2026	65616 AGG2376	30.24
4/6/2016	4/6/2026	65781 AGG2376	25.57
3/24/2016	3/24/2026	65725 AGG2376	12.1
3/16/2016	3/16/2026	65616 AGG2376	12.06
3/14/2016	3/14/2026	65738 AGG2376	7.98
4/6/2016	4/6/2026	65604 AGG2376	8.03
4/1/2016	4/1/2026	64836 AGG2376	8.5
3/16/2016	3/16/2026	64850 AGG2376	5.98
3/17/2016	3/17/2026	64850 AGG2376	8.47
3/23/2016	3/23/2026	65785 AGG2376	16.17
3/9/2016	3/9/2026	64804 AGG2376	6.7
3/14/2016	3/14/2026	64836 AGG2376	21.8
3/21/2016	3/21/2026	65613 AGG2376	20.3
3/10/2016	3/10/2026	64804 AGG2376	27.45
3/8/2016	3/8/2026	65633 AGG2376	14.59
3/9/2016	3/9/2026	64804 AGG2376	10.27
3/31/2016	3/31/2026	64858 AGG2376	15.26
3/16/2016	3/16/2026	64844 AGG2376	13.85
3/10/2016	3/10/2026	64804 AGG2376	15.56
4/5/2016	4/5/2026	65672 AGG2376	9.15
3/16/2016	3/16/2026	64844 AGG2376	13.48
3/29/2016	3/29/2026	65721 AGG2376	8.2
4/4/2016	4/4/2026	65738 AGG2376	10.37
4/5/2016	4/5/2026	64844 AGG2376	19.37
3/29/2016	3/29/2026	65631 AGG2376	7.3
3/29/2016	3/29/2026	65721 AGG2376	12.2
3/16/2016	3/16/2026	64804 AGG2376	19.1
3/8/2016	3/8/2026	65613 AGG2376	32.37
3/16/2016	3/16/2026	65616 AGG2376	22.95
4/7/2016	4/7/2026	65721 AGG2376	9.81
3/17/2016	3/17/2026	64866 AGG2376	19.16
4/5/2016	4/5/2026	64840 AGG2376	24.93
3/16/2016	3/16/2026	65781 AGG2376	11.8

4/8/2016	4/8/2026	65653 AGG2376	11.46
3/10/2016	3/10/2026	64804 AGG2376	13.7
3/16/2016	3/16/2026	65613 AGG2376	13.2
3/31/2016	3/31/2026	64804 AGG2376	35.12
3/29/2016	3/29/2026	65721 AGG2376	7
4/7/2016	4/7/2026	65622 AGG2376	21.1
3/31/2016	3/31/2026	64833 AGG2376	13.6
3/31/2016	3/31/2026	65785 AGG2376	6.86
3/18/2016	3/18/2026	65785 AGG2376	6.1
3/30/2016	3/30/2026	64870 AGG2376	18.79
3/8/2016	3/8/2026	64801 AGG2376	16.57
3/14/2016	3/14/2026	64804 AGG2376	20.72
3/11/2016	3/11/2026	65870 AGG2376	16.97
3/22/2016	3/22/2026	65705 AGG2376	30.28
4/6/2016	4/6/2026	64801 AGG2376	11.1
3/22/2016	3/22/2026	64801 AGG2376	15.69
4/5/2016	4/5/2026	64804 AGG2376	10.73
4/11/2016	4/11/2026	65605 AGG2376	11.28
4/7/2016	4/7/2026	64801 AGG2376	9.57
3/17/2016	3/17/2026	65613 AGG2376	17.26
3/30/2016	3/30/2026	64804 AGG2376	27.6
4/11/2016	4/11/2026	65605 AGG2376	10.86
3/23/2016	3/23/2026	65721 AGG2376	14.1
4/4/2016	4/4/2026	65738 AGG2376	11.8
4/7/2016	4/7/2026	65685 AGG2376	20.8
3/7/2016	3/7/2026	64850 AGG2376	20.71
3/23/2016	3/23/2026	64850 AGG2376	10.48
3/10/2016	3/10/2026	64804 AGG2376	15.25
3/18/2016	3/18/2026	65616 AGG2376	31.11
3/23/2016	3/23/2026	64804 AGG2376	13.2
3/7/2016	3/7/2026	65769 AGG2376	11.7
3/10/2016	3/10/2026	64804 AGG2376	9.25
3/24/2016	3/24/2026	65648 AGG2376	17.7
4/1/2016	4/1/2026	64801 AGG2376	27.1
3/7/2016	3/7/2026	64850 AGG2376	14.57
3/22/2016	3/22/2026	65721 AGG2376	14.29
4/7/2016	4/7/2026	64870 AGG2376	12.24
3/22/2016	3/22/2026	64804 AGG2376	11.97
4/5/2016	4/5/2026	64804 AGG2376	13.56
3/31/2016	3/31/2026	64859 AGG2376	19.2
3/17/2016	3/17/2026	65613 AGG2376	16.8
4/12/2016	4/12/2026	64801 AGG2376	8.78
4/15/2016	4/15/2026	64804 AGG2377	35.45
4/22/2016	4/22/2026	64804 AGG2377	11.02
4/15/2016	4/15/2026	64802 AGG2377	31.9
4/14/2016	4/14/2026	64836 AGG2377	29.4

1201.05

4/20/2016	4/20/2026	65783 AGG2377	15.23
4/26/2016	4/26/2026	64804 AGG2377	7.15
4/15/2016	4/15/2026	64804 AGG2377	13.42
4/14/2016	4/14/2026	65648 AGG2377	19.02
4/15/2016	4/15/2026	64804 AGG2377	12.1
4/22/2016	4/22/2026	64801 AGG2377	13.91
4/19/2016	4/19/2026	64850 AGG2377	16.84
4/19/2016	4/19/2026	64836 AGG2377	35.86
4/19/2016	4/19/2026	65613 AGG2377	8.35
4/20/2016	4/20/2026	64841 AGG2377	18.54
4/26/2016	4/26/2026	65781 AGG2377	7.95
4/21/2016	4/21/2026	64804 AGG2377	29.56
4/22/2016	4/22/2026	64855 AGG2377	23.17
4/14/2016	4/14/2026	65738 AGG2377	9.91
4/19/2016	4/19/2026	65613 AGG2377	14
4/13/2016	4/13/2026	65605 AGG2377	34.06
4/13/2016	4/13/2026	64804 AGG2377	15.3
4/15/2016	4/15/2026	64802 AGG2377	31.9
4/15/2016	4/15/2026	64802 AGG2377	31.23
4/21/2016	4/21/2026	65721 AGG2377	7.14
4/15/2016	4/15/2026	64804 AGG2377	7.02
4/13/2016	4/13/2026	64801 AGG2377	20.43
4/20/2016	4/20/2026	65738 AGG2377	27
4/13/2016	4/13/2026	65738 AGG2377	32.78
4/27/2016	4/27/2026	64844 AGG2377	21.5
4/21/2016	4/21/2026	64804 AGG2377	14.8
4/13/2016	4/13/2026	64804 AGG2377	12.76
4/20/2016	4/20/2026	64801 AGG2377	10.51
4/15/2016	4/15/2026	65781 AGG2377	22.7
4/14/2016	4/14/2026	65672 AGG2377	16.99
4/14/2016	4/14/2026	64801 AGG2377	34.3
4/14/2016	4/14/2026	65653 AGG2377	15.65
4/12/2016	4/12/2026	65721 AGG2377	7.64
4/19/2016	4/19/2026	65613 AGG2377	30.4
4/19/2016	4/19/2026	65613 AGG2377	23.9
4/19/2016	4/19/2026	65613 AGG2377	30.1
4/19/2016	4/19/2026	65613 AGG2377	31.89
4/21/2016	4/21/2026	65753 AGG2377	31.3
4/21/2016	4/21/2026	64108 AGG2377	31.38
4/25/2016	4/25/2026	64804 AGG2377	7.53
4/27/2016	4/27/2026	65721 AGG2377	11.8
4/14/2016	4/14/2026	65770 AGG2377	9.51
4/19/2016	4/19/2026	64844 AGG2377	13.81
4/13/2016	4/13/2026	64801 AGG2377	13.77
4/27/2016	4/27/2026	64850 AGG2377	23.94
4/14/2016	4/14/2026	65721 AGG2377	12.69
4/20/2016	4/20/2026	65738 AGG2377	9.3

4/21/2016	4/21/2026	64804 AGG2377	12.39
4/27/2016	4/27/2026	64858 AGG2377	19.24
4/26/2016	4/26/2026	65781 AGG2377	13.34
4/21/2016	4/21/2026	65721 AGG2377	21.4
4/26/2016	4/26/2026	64836 AGG2377	25.25
4/27/2016	4/27/2026	64850 AGG2377	19.97
4/25/2016	4/25/2026	65672 AGG2377	8.62
4/21/2016	4/21/2026	64841 AGG2377	27.7
4/20/2016	4/20/2026	65738 AGG2377	13.9
4/26/2016	4/26/2026	64804 AGG2377	14.1
4/12/2016	4/12/2026	65613 AGG2377	32
4/13/2016	4/13/2026	64801 AGG2377	14.37
4/25/2016	4/25/2026	65605 AGG2377	30.15

1250.24

5/9/2016	5/9/2026	65752 AGG2378	14.5
4/28/2016	4/28/2026	65850 AGG2378	24.99
5/3/2016	5/3/2026	64836 AGG2378	10.8
5/18/2016	5/18/2026	64870 AGG2378	15.27
5/19/2016	5/19/2026	64804 AGG2378	32.51
5/3/2016	5/3/2026	65785 AGG2378	35.32
5/9/2016	5/9/2026	65661 AGG2378	20.6
5/20/2016	5/20/2026	65603 AGG2378	22.2
5/9/2016	5/9/2026	64850 AGG2378	35.93
5/18/2016	5/18/2026	64804 AGG2378	17.31
5/4/2016	5/4/2026	64850 AGG2378	13.49
5/11/2016	5/11/2026	64870 AGG2378	35.94
5/2/2016	5/2/2026	64865 AGG2378	21.6
5/13/2016	5/13/2026	65616 AGG2378	10.95
5/9/2016	5/9/2026	65661 AGG2378	11
5/3/2016	5/3/2026	65785 AGG2378	12.03
5/17/2016	5/17/2026	65721 AGG2378	8.8
4/28/2016	4/28/2026	65604 AGG2378	14.65
5/3/2016	5/3/2026	64870 AGG2378	15.8
5/4/2016	5/4/2026	64804 AGG2378	15.93
5/16/2016	5/16/2026	65679 AGG2378	15.94
5/18/2016	5/18/2026	64836 AGG2378	35.54
5/23/2016	5/23/2026	65785 AGG2378	32.58
5/23/2016	5/23/2026	65785 AGG2378	10.9
5/2/2016	5/2/2026	65604 AGG2378	12.95
5/4/2016	5/4/2026	65685 AGG2378	16.92
5/20/2016	5/20/2026	64804 AGG2378	6.58
5/17/2016	5/17/2026	64870 AGG2378	9.6
5/19/2016	5/19/2026	64850 AGG2378	5.7
5/3/2016	5/3/2026	65785 AGG2378	20.03
5/18/2016	5/18/2026	64804 AGG2378	15.3
5/4/2016	5/4/2026	64850 AGG2378	31.95
5/4/2016	5/4/2026	64850 AGG2378	31.95

5/2/2016	5/2/2026	64834 AGG2378	17
5/20/2016	5/20/2026	65682 AGG2378	30.6
5/16/2016	5/16/2026	65707 AGG2378	14.2
5/19/2016	5/19/2026	65721 AGG2378	20.3
5/17/2016	5/17/2026	65708 AGG2378	34.24
5/3/2016	5/3/2026	64804 AGG2378	13.8
5/11/2016	5/11/2026	65685 AGG2378	19.86
4/28/2016	4/28/2026	65604 AGG2378	10.85
5/11/2016	5/11/2026	65685 AGG2378	14.96
4/29/2016	4/29/2026	64801 AGG2378	9.37
4/28/2016	4/28/2026	64804 AGG2378	22.52
5/9/2016	5/9/2026	65661 AGG2378	15.9
5/11/2016	5/11/2026	65723 AGG2378	5.9
5/11/2016	5/11/2026	65723 AGG2378	4.1
5/11/2016	5/11/2026	65721 AGG2378	9.7
5/11/2016	5/11/2026	64804 AGG2378	10.74
5/13/2016	5/13/2026	64866 AGG2378	12.16
5/4/2016	5/4/2026	64850 AGG2378	25.76
5/9/2016	5/9/2026	65738 AGG2378	6.7
5/13/2016	5/13/2026	65738 AGG2378	21.37
5/12/2016	5/12/2026	65723 AGG2378	17.5
5/11/2016	5/11/2026	65616 AGG2378	22.05
5/17/2016	5/17/2026	65613 AGG2378	30.3
5/17/2016	5/17/2026	65613 AGG2378	25.3
4/28/2016	4/28/2026	65616 AGG2378	31.81
4/28/2016	4/28/2026	65616 AGG2378	31.43
5/10/2016	5/10/2026	65721 AGG2378	35.18
4/28/2016	4/28/2026	64804 AGG2378	21
5/20/2016	5/20/2026	64804 AGG2378	9.9
5/3/2016	5/3/2026	65605 AGG2378	33.7
5/4/2016	5/4/2026	65622 AGG2378	33.51

1247.27

5/23/2016	5/23/2026	65708 AGG2379	16.3
6/7/2016	6/7/2026	65738 AGG2379	8.74
6/8/2016	6/8/2026	65714 AGG2379	14.05
6/3/2016	6/3/2026	64801 AGG2379	31.03
6/7/2016	6/7/2026	65653 AGG2379	30.56
6/16/2016	6/16/2026	64834 AGG2379	35.7
6/16/2016	6/16/2026	64834 AGG2379	35.95
6/16/2016	6/16/2026	64834 AGG2379	35.86
6/16/2016	6/16/2026	64834 AGG2379	35.55
6/14/2016	6/14/2026	65622 AGG2379	11.7
6/2/2016	6/2/2026	65721 AGG2379	14.4
6/9/2016	6/9/2026	64801 AGG2379	20.6
5/26/2016	5/26/2026	65770 AGG2379	31.76
6/1/2016	6/1/2026	65854 AGG2379	30.85
6/16/2016	6/16/2026	64834 AGG2379	20.23

6/8/2016	6/8/2026	65714 AGG2379	14
6/10/2016	6/10/2026	65672 AGG2379	17.78
6/7/2016	6/7/2026	65601 AGG2379	8.4
5/25/2016	5/25/2026	65605 AGG2379	9.65
5/26/2016	5/26/2026	64870 AGG2379	12.4
5/31/2016	5/31/2026	65721 AGG2379	15
6/14/2016	6/14/2026	65738 AGG2379	30.82
6/14/2016	6/14/2026	65616 AGG2379	24.16
6/8/2016	6/8/2026	65714 AGG2379	13
5/23/2016	5/23/2026	65785 AGG2379	34.56
5/25/2016	5/25/2026	64840 AGG2379	6.7
6/13/2016	6/13/2026	65767 AGG2379	19.25
6/15/2016	6/15/2026	64850 AGG2379	7.8
6/10/2016	6/10/2026	64801 AGG2379	4.76
6/15/2016	6/15/2026	64840 AGG2379	13.88
6/1/2016	6/1/2026	64850 AGG2379	9
5/25/2016	5/25/2026	64801 AGG2379	13.8
6/14/2016	6/14/2026	65738 AGG2379	15.29
6/13/2016	6/13/2026	65757 AGG2379	2.95
6/13/2016	6/13/2026	65757 AGG2379	5.51
6/7/2016	6/7/2026	65731 AGG2379	17.85
6/7/2016	6/7/2026	65622 AGG2379	28.8
6/1/2016	6/1/2026	65721 AGG2379	5.51
6/8/2016	6/8/2026	64801 AGG2379	7.34
5/25/2016	5/25/2026	65601 AGG2379	5.5
6/7/2016	6/7/2026	65613 AGG2379	12
5/26/2016	5/26/2026	65781 AGG2379	31.28
5/23/2016	5/23/2026	64804 AGG2379	35.2
6/15/2016	6/15/2026	64832 AGG2379	15.4
5/26/2016	5/26/2026	65648 AGG2379	8.9
6/15/2016	6/15/2026	64850 AGG2379	8.07
5/27/2016	5/27/2026	65616 AGG2379	30.51
5/27/2016	5/27/2026	65653 AGG2379	30.84
6/7/2016	6/7/2026	65613 AGG2379	10.5
5/26/2016	5/26/2026	65610 AGG2379	7.69
6/14/2016	6/14/2026	64804 AGG2379	9.1
6/7/2016	6/7/2026	65601 AGG2379	7.2
6/13/2016	6/13/2026	64804 AGG2379	18.2
6/7/2016	6/7/2026	65738 AGG2379	17.5
6/16/2016	6/16/2026	65604 AGG2379	4.2
6/14/2016	6/14/2026	65616 AGG2379	29.62
6/17/2016	6/17/2026	64801 AGG2380	33.65
6/22/2016	6/22/2026	65721 AGG2380	31.65
6/21/2016	6/21/2026	64804 AGG2380	14.55
6/23/2016	6/23/2026	65613 AGG2380	14.4
6/16/2016	6/16/2026	64804 AGG2380	33.29

993.2

6/20/2016	6/20/2026	64801 AGG2380	35.93
6/20/2016	6/20/2026	64801 AGG2380	35.93
6/20/2016	6/20/2026	64801 AGG2380	35.93
6/22/2016	6/22/2026	65785 AGG2380	5.5
6/22/2016	6/22/2026	65785 AGG2380	13.6
6/24/2016	6/24/2026	64804 AGG2380	35.62
6/20/2016	6/20/2026	64870 AGG2380	28.02
6/22/2016	6/22/2026	64801 AGG2380	33.65
6/24/2016	6/24/2026	64801 AGG2380	35.01
6/24/2016	6/24/2026	65705 AGG2380	21.3
6/24/2016	6/24/2026	64804 AGG2380	8.42
6/21/2016	6/21/2026	65757 AGG2380	11.46
6/21/2016	6/21/2026	65757 AGG2380	2.87
6/17/2016	6/17/2026	65738 AGG2380	6.2
6/20/2016	6/20/2026	65721 AGG2380	1.8
6/27/2016	6/27/2026	64801 AGG2380	7.01
6/21/2016	6/21/2026	64801 AGG2380	17.26
6/21/2016	6/21/2026	65785 AGG2380	32.58
6/20/2016	6/20/2026	65721 AGG2380	6
6/17/2016	6/17/2026	64804 AGG2380	13.96
6/24/2016	6/24/2026	65605 AGG2380	20.6
6/20/2016	6/20/2026	65738 AGG2380	16.1
6/17/2016	6/17/2026	64804 AGG2380	33.94
6/21/2016	6/21/2026	65781 AGG2380	32.91
6/27/2016	6/27/2026	65723 AGG2380	34.08
6/27/2016	6/27/2026	65723 AGG2380	34.89
6/27/2016	6/27/2026	65723 AGG2380	34.23
6/27/2016	6/27/2026	65723 AGG2380	7.12
6/27/2016	6/27/2026	65723 AGG2380	30.19
6/20/2016	6/20/2026	65721 AGG2380	26.02
6/23/2016	6/23/2026	65613 AGG2380	33.09
6/23/2016	6/23/2026	65613 AGG2380	34.03
6/20/2016	6/20/2026	65721 AGG2380	31.3
6/24/2016	6/24/2026	64804 AGG2380	21.29
6/20/2016	6/20/2026	65738 AGG2380	15
6/22/2016	6/22/2026	65661 AGG2380	22.4
6/22/2016	6/22/2026	65661 AGG2380	30.2
6/17/2016	6/17/2026	65605 AGG2380	33.56
6/24/2016	6/24/2026	65622 AGG2380	34.33
6/17/2016	6/17/2026	65616 AGG2380	34.24
1075.11			
6/30/2016	6/30/2026	64801 AGG2381	33.97
7/6/2016	7/6/2026	64801 AGG2381	9.17
6/28/2016	6/28/2026	65613 AGG2381	18.76
6/30/2016	6/30/2026	65779 AGG2381	22.7
6/28/2016	6/28/2026	65672 AGG2381	30.9
6/29/2016	6/29/2026	64865 AGG2381	34.24

6/27/2016	6/27/2026	64804 AGG2381	25.03
7/8/2016	7/8/2026	65672 AGG2381	11.73
6/28/2016	6/28/2026	64834 AGG2381	30.52
6/30/2016	6/30/2026	65721 AGG2381	22.79
7/11/2016	7/11/2026	64859 AGG2381	15.61
6/29/2016	6/29/2026	64850 AGG2381	8.51
7/6/2016	7/6/2026	65617 AGG2381	14.1
7/8/2016	7/8/2026	65679 AGG2381	5.02
6/29/2016	6/29/2026	65661 AGG2381	33.7
6/29/2016	6/29/2026	65661 AGG2381	33.7
6/29/2016	6/29/2026	65661 AGG2381	33.71
6/29/2016	6/29/2026	65661 AGG2381	32.61
7/6/2016	7/6/2026	65672 AGG2381	18.52
6/28/2016	6/28/2026	65605 AGG2381	25.36
6/30/2016	6/30/2026	64804 AGG2381	14.39
7/7/2016	7/7/2026	64855 AGG2381	16.7
6/28/2016	6/28/2026	64801 AGG2381	35.93
7/1/2016	7/1/2026	65653 AGG2381	9.44
6/30/2016	6/30/2026	65613 AGG2381	21
6/29/2016	6/29/2026	64850 AGG2381	35.56
6/30/2016	6/30/2026	64804 AGG2381	33.28
7/6/2016	7/6/2026	64801 AGG2381	10.74
7/1/2016	7/1/2026	65679 AGG2381	15.74
7/8/2016	7/8/2026	65610 AGG2381	12.84
7/6/2016	7/6/2026	65672 AGG2381	35.56
7/6/2016	7/6/2026	65672 AGG2381	10.11
6/28/2016	6/28/2026	65616 AGG2381	7.83
6/28/2016	6/28/2026	65616 AGG2381	34.18
6/28/2016	6/28/2026	64801 AGG2381	24.61
6/28/2016	6/28/2026	64801 AGG2381	31.05
6/28/2016	6/28/2026	64801 AGG2381	33.89
6/29/2016	6/29/2026	64836 AGG2381	10.58
7/6/2016	7/6/2026	65616 AGG2381	22.33
7/6/2016	7/6/2026	65616 AGG2381	14.45
6/28/2016	6/28/2026	64804 AGG2381	12.09
7/6/2016	7/6/2026	65613 AGG2381	19.7
6/28/2016	6/28/2026	64801 AGG2381	32.82
7/5/2016	7/5/2026	65738 AGG2381	15.44
6/30/2016	6/30/2026	64836 AGG2381	19.7
990.61			
9/14/2016	9/14/2026	64834 AGG2475	10.23
7/14/2016	7/14/2026	64870 AGG2475	19.7
8/8/2016	8/8/2026	65785 AGG2475	13.96
7/11/2016	7/11/2026	65605 AGG2475	19.95
9/21/2016	9/21/2026	64843 AGG2475	5.6
9/13/2016	9/13/2026	65616 AGG2475	14.15
9/14/2016	9/14/2026	64870 AGG2475	9.84

7/28/2016	7/28/2026	65721 AGG2475	11.36
7/27/2016	7/27/2026	64836 AGG2475	14.45
9/30/2016	9/30/2026	64804 AGG2475	17.94
9/7/2016	9/7/2026	64844 AGG2475	14.59
7/28/2016	7/28/2026	65753 AGG2475	16.01
9/16/2016	9/16/2026	64855 AGG2475	22.4
9/28/2016	9/28/2026	65738 AGG2475	28.4
9/21/2016	9/21/2026	64804 AGG2475	11.49
8/16/2016	8/16/2026	65601 AGG2475	16.5
7/21/2016	7/21/2026	64759 AGG2475	10.3
8/4/2016	8/4/2026	64801 AGG2475	9.96
9/1/2016	9/1/2026	65738 AGG2475	7.67
8/16/2016	8/16/2026	65738 AGG2475	6
7/21/2016	7/21/2026	65661 AGG2475	33.7
7/28/2016	7/28/2026	65613 AGG2475	12.9
7/19/2016	7/19/2026	65604 AGG2475	8.54
7/28/2016	7/28/2026	65648 AGG2475	14.72
8/18/2016	8/18/2026	64801 AGG2475	14.42
9/16/2016	9/16/2026	65714 AGG2475	16.97
7/27/2016	7/27/2026	64844 AGG2475	11.06
9/1/2016	9/1/2026	65705 AGG2475	4.27
9/14/2016	9/14/2026	64870 AGG2475	8.78
8/9/2016	8/9/2026	65610 AGG2475	17.52
8/9/2016	8/9/2026	65610 AGG2475	11.26
8/30/2016	8/30/2026	65721 AGG2475	8.97
9/2/2016	9/2/2026	65707 AGG2475	13.46
9/14/2016	9/14/2026	64804 AGG2475	17.78
9/28/2016	9/28/2026	65781 AGG2475	7.1
9/28/2016	9/28/2026	64804 AGG2475	11.1
9/14/2016	9/14/2026	65721 AGG2475	8.85
7/28/2016	7/28/2026	65753 AGG2475	10.33
7/15/2016	7/15/2026	64804 AGG2475	7.09
8/25/2016	8/25/2026	64834 AGG2475	10.18
9/6/2016	9/6/2026	64831 AGG2475	13.14
7/19/2016	7/19/2026	65781 AGG2475	7.07
8/22/2016	8/22/2026	65723 AGG2475	32.68
8/9/2016	8/9/2026	65738 AGG2475	6.52
9/13/2016	9/13/2026	65721 AGG2475	7.2
7/19/2016	7/19/2026	64870 AGG2475	11.8
8/8/2016	8/8/2026	65781 AGG2475	7.02
8/11/2016	8/11/2026	64804 AGG2475	6.23
9/21/2016	9/21/2026	64804 AGG2475	8.24
9/28/2016	9/28/2026	65601 AGG2475	10.8
7/26/2016	7/26/2026	64804 AGG2475	12.43
9/16/2016	9/16/2026	65721 AGG2475	31.26
7/21/2016	7/21/2026	65613 AGG2475	13.3
8/10/2016	8/10/2026	65679 AGG2475	10.5

8/9/2016	8/9/2026	65774 AGG2475	13.8
8/5/2016	8/5/2026	65721 AGG2475	8.8
8/3/2016	8/3/2026	65721 AGG2475	7.45
8/24/2016	8/24/2026	65707 AGG2475	17
7/29/2016	7/29/2026	64804 AGG2475	7.15
7/28/2016	7/28/2026	65661 AGG2475	15.77
8/8/2016	8/8/2026	65785 AGG2475	6.6
8/24/2016	8/24/2026	65785 AGG2475	8.36
8/2/2016	8/2/2026	65605 AGG2475	10.94
7/28/2016	7/28/2026	65661 AGG2475	9
9/20/2016	9/20/2026	64801 AGG2475	11.25
9/27/2016	9/27/2026	65679 AGG2475	35.53
8/24/2016	8/24/2026	65622 AGG2475	24.9
8/18/2016	8/18/2026	64834 AGG2475	10.89
7/29/2016	7/29/2026	65616 AGG2475	8.64
7/13/2016	7/13/2026	65723 AGG2475	11.97
7/11/2016	7/11/2026	64801 AGG2475	16.16
9/20/2016	9/20/2026	64801 AGG2475	10.08
9/2/2016	9/2/2026	65785 AGG2475	16.8
9/19/2016	9/19/2026	64801 AGG2475	9.92
7/28/2016	7/28/2026	65723 AGG2475	12.28

980.98

11/10/2016	11/10/2026	64801 AGG2476	8.01
11/22/2016	11/22/2026	65710 AGG2476	11.24
12/21/2016	12/21/2026	64804 AGG2476	12.62
11/9/2016	11/9/2026	64862 AGG2476	8.12
11/8/2016	11/8/2026	65616 AGG2476	29.93
10/7/2016	10/7/2026	64801 AGG2476	35.1
10/11/2016	10/11/2026	64834 AGG2476	17.62
10/31/2016	10/31/2026	65617 AGG2476	14.04
11/16/2016	11/16/2026	64836 AGG2476	14.5
11/21/2016	11/21/2026	64804 AGG2476	7.07
12/22/2016	12/22/2026	65738 AGG2476	10.86
10/14/2016	10/14/2026	65646 AGG2476	20.92
11/21/2016	11/21/2026	64801 AGG2476	10.76
12/1/2016	12/1/2026	65738 AGG2476	9.3
12/20/2016	12/20/2026	64870 AGG2476	15.81
11/21/2016	11/21/2026	64804 AGG2476	13.7
12/21/2016	12/21/2026	64804 AGG2476	11.69
11/22/2016	11/22/2026	65714 AGG2476	35.19
11/22/2016	11/22/2026	65656 AGG2476	11.65
10/25/2016	10/25/2026	65721 AGG2476	11.38
10/26/2016	10/26/2026	65738 AGG2476	12.5
10/13/2016	10/13/2026	65721 AGG2476	7.12
12/12/2016	12/12/2026	64840 AGG2476	4.36
12/1/2016	12/1/2026	64804 AGG2476	8.45
10/18/2016	10/18/2026	65770 AGG2476	15.21

11/10/2016	11/10/2026	65738 AGG2476	21
10/4/2016	10/4/2026	65672 AGG2476	9.87
10/25/2016	10/25/2026	64841 AGG2476	4.36
11/10/2016	11/10/2026	64804 AGG2476	8.82
12/2/2016	12/2/2026	64804 AGG2476	17.7
10/19/2016	10/19/2026	64859 AGG2476	13.93
12/20/2016	12/20/2026	65721 AGG2476	8.37
10/25/2016	10/25/2026	64804 AGG2476	4.12
12/16/2016	12/16/2026	65622 AGG2476	32.06
12/30/2016	12/30/2026	64804 AGG2476	22.55
10/25/2016	10/25/2026	64804 AGG2476	6.02
10/13/2016	10/13/2026	65721 AGG2476	7.22
12/2/2016	12/2/2026	64841 AGG2476	13.41
12/20/2016	12/20/2026	65721 AGG2476	7.47
12/28/2016	12/28/2026	64834 AGG2476	10.41
10/13/2016	10/13/2026	65721 AGG2476	10.24
10/3/2016	10/3/2026	64850 AGG2476	3.13
11/22/2016	11/22/2026	65753 AGG2476	13.43
10/13/2016	10/13/2026	65721 AGG2476	7.65
11/7/2016	11/7/2026	64801 AGG2476	35.19
11/8/2016	11/8/2026	65616 AGG2476	31.66
12/9/2016	12/9/2026	65712 AGG2476	16
12/30/2016	12/30/2026	64854 AGG2476	8.48
11/22/2016	11/22/2026	65701 AGG2476	9.15
11/17/2016	11/17/2026	65738 AGG2476	10.9
11/29/2016	11/29/2026	65672 AGG2476	11.35
9/30/2016	9/30/2026	64804 AGG2476	13.89
10/26/2016	10/26/2026	65738 AGG2476	4.82
12/9/2016	12/9/2026	64801 AGG2476	34.89
12/22/2016	12/22/2026	65738 AGG2476	6.32
11/2/2016	11/2/2026	65613 AGG2476	11.2
12/2/2016	12/2/2026	65613 AGG2476	32.33
10/13/2016	10/13/2026	65721 AGG2476	19.63
11/17/2016	11/17/2026	65648 AGG2476	5.44
12/2/2016	12/2/2026	64801 AGG2476	10.39
12/14/2016	12/14/2026	65616 AGG2476	34.95
12/14/2016	12/14/2026	65616 AGG2476	30.03
11/17/2016	11/17/2026	65648 AGG2476	6.06
12/22/2016	12/22/2026	65781 AGG2476	18.46
12/16/2016	12/16/2026	65613 AGG2476	29.96
12/1/2016	12/1/2026	65738 AGG2476	9.45
10/26/2016	10/26/2026	65738 AGG2476	10.68
11/10/2016	11/10/2026	65721 AGG2476	13.24
11/17/2016	11/17/2026	65738 AGG2476	11.4
10/25/2016	10/25/2026	64804 AGG2476	10.23
11/28/2016	11/28/2026	65202 AGG2476	12.95
12/16/2016	12/16/2026	65613 AGG2476	35.76

11/7/2016

11/7/2026

64804 AGG2476

23.04

1086.76

TOTAL 2017 GENERATION OF 2016 SYSTEMS

11350.82

SOLAR 2015 SYSTEMS

OPERATIONAL DATE	END OF REBATE	ZIP CODE	NARR AGG SUBACCOUNT	ANNUAL SRECS	NARR SUBACCOUNT TOTAL
6/30/2015	6/29/2025	64836	AGG2321	22.5	
6/19/2015	6/18/2025	64801	AGG2321	12.9	
6/30/2015	6/29/2025	64850	AGG2321	12.9	
8/27/2015	8/26/2025	64850	AGG2321	6.7	
6/12/2015	6/11/2025	64836	AGG2321	34.9	
6/30/2015	6/29/2025	64850	AGG2321	38.8	
6/4/2015	6/3/2025	65785	AGG2321	9	
6/11/2015	6/10/2025	65781	AGG2321	15.2	
6/22/2015	6/21/2025	64804	AGG2321	5.2	
6/25/2015	6/24/2025	64836	AGG2321	13.6	
6/17/2015	6/16/2025	64836	AGG2321	10.2	
6/11/2015	6/10/2025	64870	AGG2321	14.3	
12/23/2015	12/22/2025	65616	AGG2321	32.83	
12/22/2015	12/21/2025	65616	AGG2321	30.22	
6/26/2015	6/25/2025	64755	AGG2321	7.6	
6/22/2015	6/21/2025	64804	AGG2321	14.1	
7/20/2015	7/19/2025	65785	AGG2321	12.36	
6/15/2015	6/14/2025	64804	AGG2321	19.2	
6/19/2015	6/18/2025	64836	AGG2321	14.1	
11/23/2015	11/22/2025	65616	AGG2321	34.44	
6/24/2015	6/23/2025	64850	AGG2321	9.4	
8/20/2015	8/19/2025	65605	AGG2321	17.8	
6/26/2015	6/25/2025	64836	AGG2321	10.2	
6/30/2015	6/29/2025	64836	AGG2321	16.4	
12/23/2015	12/22/2025	65616	AGG2321	35.83	
8/10/2015	8/9/2025	65757	AGG2321	19.43	
7/14/2015	7/13/2025	64801	AGG2321	8.6	
6/26/2015	6/25/2025	64834	AGG2321	11.6	
6/23/2015	6/22/2025	64850	AGG2321	10.1	
12/23/2015	12/22/2025	65616	AGG2321	35.85	
6/26/2015	6/25/2025	64804	AGG2321	19.4	
6/12/2015	6/11/2025	64804	AGG2321	13.24	
6/26/2015	6/25/2025	64859	AGG2321	10.64	
6/18/2015	6/17/2025	65653	AGG2321	12.3	
6/9/2015	6/8/2025	65738	AGG2321	6.3	
6/16/2015	6/15/2025	64801	AGG2321	8.5	
6/26/2015	6/25/2025	64804	AGG2321	15.3	
6/9/2015	6/8/2025	65613	AGG2321	11.1	
6/2/2015	6/1/2025	65672	AGG2321	14.9	
6/30/2015	6/29/2025	65723	AGG2321	25.28	
6/23/2015	6/22/2025	64801	AGG2321	10.6	
6/22/2015	6/21/2025	65613	AGG2321	19.9	

6/26/2015	6/25/2025	65613 AGG2321	17.6
6/18/2015	6/17/2025	65616 AGG2321	17.7
6/25/2015	6/24/2025	64870 AGG2321	9.8
6/29/2015	6/28/2025	65785 AGG2321	35.2
6/29/2015	6/28/2025	65785 AGG2321	35.2
6/5/2015	6/4/2025	64801 AGG2321	4.3
7/16/2015	7/15/2025	64801 AGG2321	6.2
6/24/2015	6/23/2025	64870 AGG2321	10.4

840.12

11/9/2015	11/8/2025	65616 AGG2322	18.51
12/18/2015	12/17/2025	65648 AGG2322	12.58
10/29/2015	10/28/2025	65781 AGG2322	6.61
10/22/2015	10/21/2025	65640 AGG2322	23.4
9/25/2015	9/24/2025	65672 AGG2322	7.52
11/18/2015	11/17/2025	64834 AGG2322	13.5
11/24/2015	11/23/2025	64801 AGG2322	12.9
12/1/2015	11/30/2025	64804 AGG2322	29.02
12/2/2015	12/1/2025	64865 AGG2322	20.18
11/18/2015	11/17/2025	65738 AGG2322	15.82
11/20/2015	11/19/2025	65721 AGG2322	8.31
5/27/2015	5/26/2025	64804 AGG2322	18
11/3/2015	11/2/2025	65721 AGG2322	14.66
9/9/2015	9/8/2025	64836 AGG2322	23.8
10/22/2015	10/21/2025	65653 AGG2322	15.8
10/12/2015	10/11/2025	64801 AGG2322	18.03
8/26/2015	8/25/2025	65781 AGG2322	12.79
7/30/2015	7/29/2025	64836 AGG2322	17.2
11/25/2015	11/24/2025	65613 AGG2322	21
11/6/2015	11/5/2025	64804 AGG2322	6.4
10/26/2015	10/25/2025	65723 AGG2322	17.33
10/23/2015	10/22/2025	64850 AGG2322	9.22
9/18/2015	9/17/2025	64804 AGG2322	14.2
10/30/2015	10/29/2025	65705 AGG2322	11.43
12/22/2015	12/21/2025	65616 AGG2322	15.02
10/21/2015	10/20/2025	64804 AGG2322	8.87
11/6/2015	11/5/2025	64734 AGG2322	23.5
12/7/2015	12/6/2025	65785 AGG2322	22.1
9/14/2015	9/13/2025	64836 AGG2322	21.2
11/10/2015	11/9/2025	64804 AGG2322	11.8
11/24/2015	11/23/2025	65616 AGG2322	8.03
10/29/2015	10/28/2025	65663 AGG2322	8.12
11/10/2015	11/9/2025	64870 AGG2322	15.1
10/27/2015	10/26/2025	65721 AGG2322	14.58
11/25/2015	11/24/2025	65610 AGG2322	14.63
11/25/2015	11/24/2025	65613 AGG2322	14.3
11/12/2015	11/11/2025	64836 AGG2322	13.9
11/25/2015	11/24/2025	65738 AGG2322	6.21

9/15/2015	9/14/2025	65653	AGG2322	2.9
11/6/2015	11/5/2025	65653	AGG2322	16.04
10/23/2015	10/22/2025	64836	AGG2322	18.9
9/30/2015	9/29/2025	64755	AGG2322	18.9
9/30/2015	9/29/2025	64850	AGG2322	16.49
9/9/2015	9/8/2025	65804	AGG2322	7.52
12/18/2015	12/17/2025	65753	AGG2322	14.88
8/3/2015	8/2/2025	64801	AGG2322	6.8
10/1/2015	9/30/2025	64844	AGG2322	12.1
11/13/2015	11/12/2025	65737	AGG2322	14.36
9/9/2015	9/8/2025	65781	AGG2322	8.94
10/7/2015	10/6/2025	64804	AGG2322	13.46
9/25/2015	9/24/2025	65788	AGG2322	6.37
10/19/2015	10/18/2025	64834	AGG2322	20.5
10/22/2015	10/21/2025	64859	AGG2322	9.53
11/18/2015	11/17/2025	65616	AGG2322	17.99
9/18/2015	9/17/2025	65738	AGG2322	14.6
11/16/2015	11/15/2025	65672	AGG2322	17.63
11/4/2015	11/3/2025	65708	AGG2322	8.9
9/4/2015	9/3/2025	64836	AGG2322	10.6
9/21/2015	9/20/2025	65622	AGG2322	20.8
9/18/2015	9/17/2025	64801	AGG2322	15.2
12/11/2015	12/10/2025	65781	AGG2322	11.04
9/30/2015	9/29/2025	65757	AGG2322	19.95
12/2/2015	12/1/2025	65721	AGG2322	6.8
11/12/2015	11/11/2025	65721	AGG2322	10.45
11/19/2015	11/18/2025	65606	AGG2322	9.62
8/31/2015	8/30/2025	65738	AGG2322	10.9
11/12/2015	11/11/2025	64854	AGG2322	13.48
9/30/2015	9/29/2025	65721	AGG2322	11.58
9/16/2015	9/15/2025	65721	AGG2322	10.5
11/13/2015	11/12/2025	65616	AGG2322	6.55
10/21/2015	10/20/2025	65672	AGG2322	17.7
11/18/2015	11/17/2025	65605	AGG2322	7.25
10/7/2015	10/6/2025	65738	AGG2322	14.67
12/10/2015	12/9/2025	65616	AGG2322	31.36
12/9/2015	12/8/2025	65653	AGG2322	20.6
11/30/2015	11/29/2025	65781	AGG2322	17.06
11/6/2015	11/5/2025	65721	AGG2322	19.7
12/15/2015	12/14/2025	65723	AGG2322	30.15
8/26/2015	8/25/2025	65781	AGG2322	17.59
11/19/2015	11/18/2025	65781	AGG2322	6.95
11/5/2015	11/4/2025	64804	AGG2322	10.79
12/18/2015	12/17/2025	65721	AGG2322	11.7
12/11/2015	12/10/2025	64801	AGG2322	30.5
9/3/2015	9/2/2025	64834	AGG2322	20.5
10/23/2015	10/22/2025	64870	AGG2322	14.1

11/30/2015	11/29/2025	65604	AGG2323	9.81
10/27/2015	10/26/2025	65721	AGG2323	24.1
12/22/2015	12/21/2025	64870	AGG2323	26.1
11/13/2015	11/12/2025	65613	AGG2323	16.1
11/18/2015	11/17/2025	65708	AGG2323	23.57
12/18/2015	12/17/2025	64873	AGG2323	13.8
12/18/2015	12/17/2025	65648	AGG2323	11.87
11/6/2015	11/5/2025	64801	AGG2323	6.33
12/22/2015	12/21/2025	65738	AGG2323	6.74
11/6/2015	11/5/2025	65653	AGG2323	5.31
11/23/2015	11/22/2025	65605	AGG2323	16.21
11/25/2015	11/24/2025	65613	AGG2323	24.4
11/16/2015	11/15/2025	65653	AGG2323	6.21
12/23/2015	12/22/2025	65622	AGG2323	35.95
11/25/2015	11/24/2025	65738	AGG2323	5.54
12/8/2015	12/7/2025	65708	AGG2323	12.94
11/30/2015	11/29/2025	65781	AGG2323	14.51
12/18/2015	12/17/2025	65672	AGG2323	16.35
11/23/2015	11/22/2025	64804	AGG2323	6.4
11/10/2015	11/9/2025	64801	AGG2323	8.3
12/22/2015	12/21/2025	64836	AGG2323	16.4
12/9/2015	12/8/2025	64870	AGG2323	20.2
10/13/2015	10/12/2025	64834	AGG2323	9.8
12/17/2015	12/16/2025	65721	AGG2323	13.71
12/22/2015	12/21/2025	65738	AGG2323	12.48
12/16/2015	12/15/2025	65705	AGG2323	11.3
9/29/2015	9/28/2025	64804	AGG2323	6.86
12/7/2015	12/6/2025	64870	AGG2323	12.1
12/10/2015	12/9/2025	64850	AGG2323	24.08
11/30/2015	11/29/2025	65604	AGG2323	16.72
12/3/2015	12/2/2025	64804	AGG2323	8.63
11/6/2015	11/5/2025	65672	AGG2323	5.42
12/18/2015	12/17/2025	65612	AGG2323	14.49
12/4/2015	12/3/2025	64804	AGG2323	9.87
12/18/2015	12/17/2025	65616	AGG2323	5.78
12/29/2015	12/28/2025	64801	AGG2323	35.88
12/17/2015	12/16/2025	65721	AGG2323	7.69
12/29/2015	12/28/2025	64840	AGG2323	23.99
12/21/2015	12/20/2025	64870	AGG2323	16.9
11/20/2015	11/19/2025	65721	AGG2323	16.04
12/17/2015	12/16/2025	64855	AGG2323	31.63
11/30/2015	11/29/2025	65781	AGG2323	24.15
12/14/2015	12/13/2025	65781	AGG2323	7.93
12/17/2015	12/16/2025	65622	AGG2323	16.8
12/7/2015	12/6/2025	64870	AGG2323	10.8
12/11/2015	12/10/2025	64850	AGG2323	25.8

12/17/2015	12/16/2025	64804	AGG2323	12.25
10/27/2015	10/26/2025	64844	AGG2323	16.9
12/3/2015	12/2/2025	64804	AGG2323	11.5
11/18/2015	11/17/2025	65616	AGG2323	16.89
10/2/2015	10/1/2025	65622	AGG2323	13
11/20/2015	11/19/2025	65721	AGG2323	15.86
10/28/2015	10/27/2025	65785	AGG2323	13.8
12/15/2015	12/14/2025	64755	AGG2323	10.9
12/23/2015	12/22/2025	65616	AGG2323	5.62
12/18/2015	12/17/2025	65610	AGG2323	6.9
11/25/2015	11/24/2025	65613	AGG2323	16.1
12/9/2015	12/8/2025	64804	AGG2323	12.1
12/22/2015	12/21/2025	64836	AGG2323	11.2
12/22/2015	12/21/2025	65785	AGG2323	19.8
10/20/2015	10/19/2025	64836	AGG2323	7.4
12/11/2015	12/10/2025	65770	AGG2323	35.35
10/1/2015	9/30/2025	65785	AGG2323	20
12/3/2015	12/2/2025	64804	AGG2323	12.27
11/25/2015	11/24/2025	65650	AGG2323	20.7
12/17/2015	12/16/2025	64804	AGG2323	13.75
12/29/2015	12/28/2025	64804	AGG2323	6.28
10/12/2015	10/11/2025	65707	AGG2323	14.3
11/4/2015	11/3/2025	65707	AGG2323	35.26
10/12/2015	10/11/2025	65707	AGG2323	29.1
10/12/2015	10/11/2025	65707	AGG2323	19.4
10/12/2015	10/11/2025	65707	AGG2323	6.47
10/12/2015	10/11/2025	65707	AGG2323	11.3
11/4/2015	11/3/2025	65707	AGG2323	35.23
11/18/2015	11/17/2025	65769	AGG2323	18

1163.62

TOTAL 2017 GENERATION FOR 2015 SYSTEMS

3244.21

THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

PURPOSE:

The purpose of this Rider SR is to implement the solar rebate established through §393.1030 RSMo. and to establish the terms, conditions and procedures, consistent with applicable law and MoPSC orders and rules, which the Company will rely on in accepting rebate applications, authorizing rebate payments to eligible participants for a qualifying solar electric system ("System"), and the handling of solar renewable energy credits ("SRECs") associated with the new or expanded System.

AVAILABILITY:

Subject to the Retail Rate Impact limitations set forth in 4 CSR 240-20.100(5) and §393.1030 RSMo., all Missouri retail electric customers of the Company who install, own, operate and maintain a solar electric generation system in parallel with the Company's service in accordance with the following limitations and conditions are eligible for the solar rebate:

1. The customer must have a completed and approved Net Metering Application and Agreement on file with the Company in accordance with the Company's Net Metering Rider, Rider NM.
2. The customer must be an active account on the Company's system and in good payment standing.
3. The System must be permanently installed on the customer's premise.
4. The customer must declare the installed System will remain in place on the account holder's premise for the duration of its useful life which shall be deemed to be a minimum of ten (10) years.
5. The solar modules and inverters shall be new equipment and include a manufacturer's warranty of ten (10) years.
6. No retail electric account will be eligible for a solar rebate for more than twenty-five kilowatts (25 kW) of new or expanded new capacity irrespective of the number of meters/service points associated with the account holder.
7. The System shall meet all requirements of 4 CSR 240-20.065 and the Company's Net Metering Rider, Rider NM.
8. The System must be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the System.
9. The customer must execute an affidavit for Company's use in complying with §393.1030 RSMo. The affidavit can be obtained from Company's website www.empiredistrict.com.
10. The system or expansion of an existing system must become operational after December 31, 2009, and must become operational on or before June 30, 2020.

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23a

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For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

DEFINITIONS:

APPLICATION REQUIREMENTS:

All Net Metering Application and Solar Rebate Application information necessary to receive an approval from the Company. These applications are available on the Company's website www.empiredistrict.com and must be provided to the Company including, but not limited to, accurate account number, name and service address matching customer billing information, all of the Net Metering Application, all fields of Solar Rebate Application except the "System Installation Date," customer and developer signatures, System plans, specifications, warranties and wiring diagram.

COMPLETION REQUIREMENTS:

All System installation and final documentation requirements as defined on the Company's website www.empiredistrict.com provided to the Company including, but not limited to, the System installation date, all required signatures, approval of the local inspection authority having jurisdiction (if applicable), copies of detailed receipts and invoices, System photo(s), taxpayer information form (if applicable), and affidavit.

NET METERING APPLICATION:

Section A. through Section D. of an "INTERCONNECTION APPLICATION / AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF ONE HUNDRED KILOWATTS (100 kW) OR LESS", an integral part of the Company's Net Metering Rider, Rider NM, which can be obtained from the Company's website www.empiredistrict.com.

OPERATIONAL DATE:

The date that the Company installs a meter or meters capable of determining net energy consumption and permits parallel operation of the System with the Company's electrical distribution system in accordance with the Company's "Net Metering Rider, Rider NM" tariff.

QUALIFICATION DATE:

The date that determines a customer's relative position in the Reservation Queue.

REBATE COMMITMENT:

The Company's written communication to customer, by letter or email, confirming that solar rebate funding is available for a Solar Rebate Application submitted by customer.

RESERVATION QUEUE:

The list of all complete Net Metering Applications that have been received by the Company which have not expired and have not been paid a Solar Rebate.

DATE OF ISSUE May 5, 2015 DATE EFFECTIVE May 16, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO June 4, 2015

THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

SOLAR REBATE APPLICATION:

For the customer's convenience, the Solar Rebate Application is located in two (2) places: Section H. and Section I. of an "INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF ONE HUNDRED KILOWATTS (100 kW) OR LESS", an integral part of the Company's Net Metering Rider, Rider NM; and Section A. and Section B. of the "MISSOURI SOLAR ELECTRIC REBATE APPLICATION", an integral part of the Company's Solar Rebate Rider, Rider SR – both of which can be obtained from the Company's website www.empiredistrict.com.

SYSTEM:

Qualifying solar electric system.

REBATE RATE SCHEDULE:

Subject to the Availability provisions of this Rider SR, complete and accurate Solar Rebate Applications received by the Company or postmarked on or before December 31st of any year, and for which the System becomes operational on or before June 30th of the following year, will be eligible for a solar rebate according to the following schedule:

Application Received on or before December 31 st of the Year	Operation Status Achieved on or before June 30 th of the Year	Rebate Rate per Watt
2015	2014	\$2.00
2015	2015	\$1.50
2015	2016	\$1.00
2016-2018	2017-2019	\$0.50
2019	2020	\$0.25

If a customer has satisfied all of the System Completion Requirements by June 30th of an indicated year, but the Company is not able to complete all of the Company's steps needed to establish an Operational Date on or before June 30th, the Rebate Rate will be determined as though the Operational Date was June 30th. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements required of the customer on or before June 30th of the indicated year, the Rebate Rate will be determined based on the Operational Date.

RESERVATION QUEUE:

The Company will establish a Reservation Queue for solar rebate payments based on the System Qualification Dates. A customer, and their developer (if applicable), whose Net Metering Application and Solar Rebate Application are conditionally approved pending field commissioning safety test will be notified in writing, by letter or email, that either:

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

1. Solar rebate funds have been committed for their System, subject to the Qualification Date not changing and the commitment not expiring; or
2. Solar rebate funds cannot be guaranteed for their System. The Company will use the following notice in this event:

“Empire cannot guarantee solar rebate funds for your System. Empire has filed its sixty-day notice of reaching its annual retail rate impact limit pursuant to Section 393.1030, RSMo. You may still receive a solar rebate if: a) the Public Service Commission determines that Empire has not yet met its annual retail rate impact limit; b) additional rebates become available due to other qualified solar systems dropping out of the reservation queue; or c) additional rebates become available at the start of the next calendar year.”

At least monthly, the Company will notify in writing, by letter or email, those customers and their developers that did not receive a Rebate Commitment but for which a Rebate Commitment is now being made as a result of other Systems that have dropped out of the Reservation Queue. Details concerning the Reservation Queue are posted on the Company website www.empiredistrict.com. Applications will be processed within the time frames set forth by applicable law and MoPSC orders and rules.

QUALIFICATION DATE AND REBATE COMMITMENT:

The Qualification Date will be the postmarked date of the Net Metering Application and/or the Solar Rebate Application received by the Company that satisfy the Application Requirements and are subsequently approved by the Company.

The Company will only make a Rebate Commitment to a customer that has a Qualification Date and the customer, and their developer, will be notified in writing, by letter or email, of any deficiencies in the Application Requirements that will prevent a Rebate Commitment by the Company.

The Company’s Rebate Commitment to a customer will expire if:

1. The System has not attained an Operational Date within six (6) months of the Rebate Commitment date and the Company has not granted a six (6) month extension of the Rebate Commitment based upon the customer’s submission of a report of substantial progress requesting the extension which includes proof of purchase of the major System components, demonstration of partial System construction and building permit (if required), or
2. The System has not attained an Operational Date within twelve (12) months of the Rebate Commitment date, or
3. The System is not constructed in accordance with the design submitted by the customer and approved by the Company, thereby causing the Net Metering Application to become invalid

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

THE EMPIRE DISTRICT ELECTRIC COMPANY

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SOLAR REBATE RIDER
RIDER SR

If a customer has satisfied all of the Completion Requirements but the Company is not able to complete all of the Company's steps needed to establish an Operational Date by the expiration of the Rebate Commitment, the Rebate Rate will be determined as though the Operational Date was achieved prior to the expiration. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements required of the customer on or before the expiration date, then the Rebate Commitment will expire and no payment will be made.

REBATE PAYMENT:

The amount of the rebate will be the combined direct current (DC) rating of the solar module(s) in watts as indicated by the applicant by clearly identifying the specific model number on the manufacturer's specification sheet(s) for the new System or the current expansion of an existing System multiplied by the rebate rate as determined by the Rebate Rate Schedule Provisions of this Rider SR.

A rebate payment will not be issued until:

1. A complete and accurate Net Metering Application has been executed by the customer and the Company, and
2. A complete and accurate Solar Rebate Application has been accepted by the Company and a Rebate Commitment made by the Company, and
3. Customer has satisfied all Completion Requirements, and
4. The System is operational.

A current Empire Net Metering customer does not need to complete a new Net Metering Application in order to take advantage of this Rider SR.

Rebate payments will be made within the time frames set forth by applicable law and MoPSC orders and rules.

NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Company expressly disclaims all warranties and conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Company will not be liable for any damages claimed based on a third party claim.

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

SOLAR RENEWABLE ENERGY CREDITS (SREC'S):

Customer shall transfer to the Company all right, title and interest in and to the solar renewable energy credits ("SRECs") associated with the new or expanded System that qualified customer for the solar rebate for a period of ten (10) years from the date the Customer receives its solar rebate.

SRECs produced by the System for which a rebate is received cannot be sold or promised for sale to any other party by customer or used by customer for any environmental or "green" program for a period of ten (10) years from the date the Customer receives its solar rebate.

The number of SRECs produced annually will be determined by the Company using PVWatts software developed by the U.S. Department of Energy (DOE) with the result rounded to the tenths digit.

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

FILED
Missouri Public
Service Commission
ET-2015-0285; YE-2015-0322

THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

MISSOURI SOLAR ELECTRIC REBATE APPLICATION

A. Solar Rebate (For Solar Installations only)

Solar Module Manufacturer: _____ Inverter Rating: _____ kW

Solar Module Model No: _____ Number of Modules/Panels: _____

Module Rating: _____ DC Watts System rating (sum of solar panels: _____ kW

Module Warranty: _____ years (circle on spec. sheet) Inverter Warranty: _____ years (circle on spec. sheet)

Location of modules: _____ Roof _____ Ground

Installation type: _____ Fixed _____ Ballast

System Installation Date: _____

Customer E-mail Address: _____

Customer Contact Phone Number: _____

Solar electric system must be permanently installed on the applicant's premises for a valid application.

Required documents to receive solar rebate (required to be attached for a valid application):

- Copies of detail receipts/invoices with purchase date circled
- Copies of detail spec. sheets on each component
- Copies of proof of warranty sheet (minimum of 10 year warranty)
- Photo(s) of completed system
- Completed Taxpayer Information Form (IRS Form W-9, Request for Taxpayer Identification Number and Certification)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

FILED
Missouri Public
Service Commission
ET-2015-0285; YE-2015-0322

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23g

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

B. Solar Rebate Declaration (For Solar Installations only)

I understand that the complete terms and conditions of the solar rebate program are included in the Company's Rider SR – Solar Rebate tariff.

I understand that this program has limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified that I have been placed on a waiting list for the next year's rebate program if funds run out for the current year. This program may be modified or discontinued at any time without notice from the Company.

I understand that the solar electric system must be permanently installed and remain in place on premises for the duration of its useful life – a minimum often (10) years, and the system shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system.

I understand the equipment must be new when installed, commercially available, and carry a minimum ten (10) year warranty.

I understand a rebate may be available from the Company on expanded or new solar electric systems that become operational after 12/31/2009. The applicable rebate rate and additional details and requirements can be found in the Company's Rider SR – Solar Rebate.

I understand the DC wattage rating provided by the original manufacturer and as noted in Section H will be used to determine the rebate amount.

I understand if my rebate is six hundred dollars (\$600) or more I will receive a Form 1099. (Please consult your tax advisor with any questions.)

I understand that as a condition of receiving a solar rebate, I am transferring to Company all right, title and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded System that qualified for the solar rebate and that **the SRECs cannot be sold or promised for sale to any other party or used by customer for any environmental or "green" program for a period of ten (10) years** from the date the I receive the solar rebate.

(NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Empire District Electric Company expressly disclaims any and all warranties or conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Empire District Electric Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Empire District Electric Company will not be liable for any damages claimed based on a third party claim.)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23h

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of Person Signing on behalf of Applicant

Date

Date

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ATTACHMENT 8:
AFFIDAVIT OF COMPLIANCE WITH 2017 COMPLIANCE PLAN

On April 15, 2017, The Empire District Electric Company filed a Compliance Plan outlining our plan to comply with the Renewable Energy Standard for the years of 2017-2019.

In accordance with that document, EDE stated that the company would utilize the non-solar generation from a contract with Elk River Windfarm and generation from the Ozark Beach Hydroelectric facility owned by EDE. EDE retired 179,037 vintage 2016 and 2017 RECs from the Ozark Beach facility and the Elk River Windfarm in order to meet the 2017 non-solar compliance requirements.

EDE retired 7,826 customer-generated SRECs for compliance with the solar requirement.

The 2018 RES Compliance Plan states that EDE will continue to utilize non-solar RECs generated by the Ozark Beach facility and the Elk River or Cloud County Windfarm if needed. EDE will utilize solar SRECs from customer-generated sources for compliance.

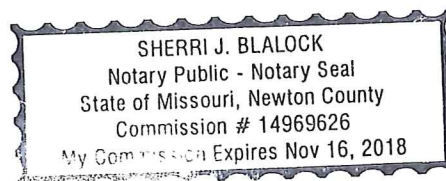
The total costs for meeting the 2017 annual Missouri RES are as follows:

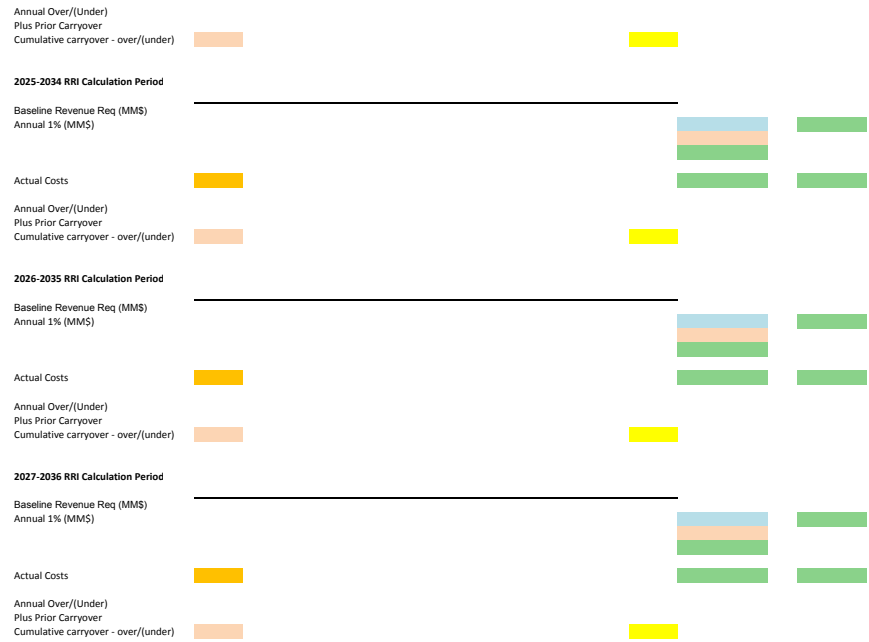
Resource	Cost
Ozark Beach Generation	-0-
Solar Customer Generation Rebates	\$1,708,378
NAR Administration	\$26,849
RRI Calculations, Modeling	\$16,960
Elk River PPA, Compliance Portion	

On this date, April 2, 2018, before me appeared Blake A. Mertens, to me personally known, who, being by me first duly sworn, states that he is Vice President, Operations-Electric, of the Empire District Electric Company and acknowledges that he has read the above and foregoing document and believes that the statements therein are true and correct to the best of his information, knowledge and belief.


Blake A. Mertens

Sherrif Blalock





Annual Revenue Requirements

Endpoint	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
1 RES																			
2 NO-RES																			

(Projected RES Exp includes avoided costs of fuel and greenhouse gas emissions compliance costs)

NO-RES (Baseline)

Add back Solar to Load Forecast (Excluded in IRP Load Forecast)

	2018	2019	2020	2021	2022	2023
INCOME STATEMENT 1						
Retail Revenues						
+Reserve Income Capacity Sales	0	0	0	0	0	0
+Reserve Capacity Sales	0	0	0	0	0	0
+Reserve Capacity Purchases	0	0	0	0	0	0
Residential	0	0	0	0	0	0
Commercial	0	0	0	0	0	0
Industrial	0	0	0	0	0	0
Lighting	0	0	0	0	0	0
Government	0	0	0	0	0	0
Other	0	0	0	0	0	0
Interruptible	0	0	0	0	0	0
Unbilled Revenues	0	0	0	0	0	0
TIER Return Adjustment	0	0	0	0	0	0
Prior Years Method Adjustment						
Prior level Method Adjustment						
Current Operating Method Adjustment						
Total Base Revenues						
+Fuel Clause Revenues						
+PGA Revenues						
+Competitive Sales						
+Competitive Unit Sales						
+Sales to Other Utilities						
+Secondary Energy Sales						
+Market Energy Sales						
+Transferred Energy Sales						
+Other Energy Sales						
+Secondary Capacity Sales						
+ICAP Revenues						
+Reserve Capacity Sales						
+Bulk Power Revenues						
+Other Revenues						
+Gas Revenues						
+Relationship Revenues						
+Regulatory Credit						
+Total Power Derivative Revenue						
=Physical Derivative Fixed Revenues						
+ Physical Derivative Variable Revenues						
+ Financial Derivative Fixed Revenues						
+ Financial Derivative Variable Revenue						
+Total Fuel Derivative Revenue						
=Physical Derivative Fixed Revenues						

- + Physical Derivative Variable Revenues
- + Financial Derivative Fixed Revenues
- + Financial Derivative Variable Revenue

TOTAL OPERATING REVENUES

- Special Expenses
- Fossil Fuel Expense
- Nuclear Fuel Expense
- Decommissioning
- DOE Deposals
- Purchased Power Expense
 - Market Purchased Power Expense
 - + Other Purchased Power Expense
 - + Amortization-Purchased Power Expense
- Deferred Fuel Expense
- Fixed O&M Production Expense
- Variable O&M Production Expense
- Total Derivative Expenses
 - Physical Derivative Fixed Expenses
 - + Physical Derivative Variable Expenses
 - + Financial Derivative Fixed Expenses
 - + Financial Derivative Variable Expenses
- Total Fuel Derivative Expenses
 - Physical Fuel Derivative Fixed Expenses
 - + Physical Fuel Derivative Variable Expenses
 - + Financial Fuel Derivative Fixed Expenses
 - + Financial Fuel Derivative Variable Expenses
- Reserve Capacity Purchases
- O&M Vacation Pay
- O&M Pension
- O&M Storm
- Service Transaction Expense
- Other O&M
- Gas Purchases
- Other Expenses
- Transmission Operation
- Transmission Maintenance
- Distribution Operation
- Distribution Maintenance
- Customer Accounts
- Customer Services
- Sales Expense
- A&G Operations
- A&G Maintenance
- Lease Expenses
 - Lease Amortization Expenses
 - + Lease Interest Expenses
- DSM Program Expense

- Emissions Credit Expense
- Retirement Medical Expense
- Depreciation Expense
- Amortization Expense
 - =Goodwill
 - + Regulatory Assets
 - + FASB 109
 - + FASB 133
 - + FASB 143
 - + Other Amortization
 - CIAC Amortization Expense

TOTAL OPERATING EXPENSE

- Operating Revenue Tax
- Other Taxes
- Property Taxes
 - Property Tax Basis
 - Property Tax Rate
 - Property Tax Basis
 - Property Taxes Prior Level
 - Property Tax Addendum
- State Income Taxes Paid
- State Tax on Capital
- Federal Income Taxes Paid
- Federal Tax on Capital
- Income Tax Deferrals (Dr)
- Income Tax Deferrals (Cr)
 - =Income Tax Deferrals (Cr)
 - +Issue Expense Deferrals (Cr)
 - + NF Deferred Taxes (Cr)
- Investment Tax Credit

TOTAL EXPENSES WITH TAXES

OPERATING INCOME

- +Deferred Revenues
- +Other Income

Net of Tax Other Income

- +Interest & Investment Income
- Expenses
- Income Taxes
- Income Tax Deferrals
- Amortization
- +AFUDC Equity

INCOME BEFORE INTEREST

- Interest on Long Term Debt
 - =Booked LTD Interest
 - +Interest Amort in LTD
- Interest on Short Term Debt
- +AFUDC Borrowed

INCOME AFTER INTEREST

+Unused Federal Tax Credits

+Subsidiary Income

-Extraordinary Items

Net Income

-Preferred Dividends

=Booked PD

+PD Amort

Earnings Available to Common

-Common Dividends

RETAINED EARNINGS

Return on Equity (%)

Return on Ratebase (%)

Book Value Per Share

Year-end Market Price Per Share

Average Market Price Per Share

Average Shares Outstanding

BOY Shares Outstanding

Net Shares Issued

Year End Shares Outstanding

Market to Book Ratio

Earnings per Share (\$)

Dividends per Share (\$)

Dividend Payout (%)

Average Equity

Common Issued

Preferred Issued

LTD Issued

STD Issued

Common Equity (%)

Preferred Stock (%)

Long Term Debt (%)

Short Term Debt (%)

Internal Cash to Construction Expense

Embed Cost Capital with STD (%)

Embed Cost Capital without STD (%)

Net Tax Embed Cost Capital with STD (%)

Net Tax Embed Cost Capital without STD (%)

Annualized LTD Cost (\$M)

Annualized PFS Cost (\$M)

Annualized STD Cost (\$M)

Annualized Equity Cost (\$M)

	2018	2019	2020	2021	2022	2023
INCOME STATEMENT 1						
Retail Revenues						
+Reserve Income Capacity Sales	0	0	0	0	0	0
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- Income Tax Deferrals (Cr)
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 - + NF Deferred Taxes (Cr)
- Investment Tax Credit

TOTAL EXPENSES WITH TAXES

OPERATING INCOME

- +Deferred Revenues
- +Other Income

Net of Tax Other Income

- +Interest & Investment Income
- Expenses
- Income Taxes
- Income Tax Deferrals
- Amortization
- +AFUDC Equity

INCOME BEFORE INTEREST

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 - +Interest Amort in LTD
- Interest on Short Term Debt
- +AFUDC Borrowed

INCOME AFTER INTEREST

+Unused Federal Tax Credits

+Subsidiary Income

-Extraordinary Items

Net Income

-Preferred Dividends

=Booked PD

+PD Amort

Earnings Available to Common

-Common Dividends

RETAINED EARNINGS

Return on Equity (%)

Return on Ratebase (%)

Book Value Per Share

Year-end Market Price Per Share

Average Market Price Per Share

Average Shares Outstanding

BOY Shares Outstanding

Net Shares Issued

Year End Shares Outstanding

Market to Book Ratio

Earnings per Share (\$)

Dividends per Share (\$)

Dividend Payout (%)

Average Equity

Common Issued

Preferred Issued

LTD Issued

STD Issued

Common Equity (%)

Preferred Stock (%)

Long Term Debt (%)

Short Term Debt (%)

Internal Cash to Construction Expense

Embed Cost Capital with STD (%)

Embed Cost Capital without STD (%)

Net Tax Embed Cost Capital with STD (%)

Net Tax Embed Cost Capital without STD (%)

Annualized LTD Cost (\$M)

Annualized PFS Cost (\$M)

Annualized STD Cost (\$M)

Annualized Equity Cost (\$M)

Endpoint	Month	Generating unit	Variables/Year	2018
	1 Annual	Asbury 1	1 Unit Capacity (MW)	
	1 Annual	Iatan 1	2 Unit Capacity (MW)	
	1 Annual	Energy Center 1	Unit Capacity (MW)	
	1 Annual	Energy Center 2	Unit Capacity (MW)	
	1 Annual	Energy Center 3	Unit Capacity (MW)	
	1 Annual	Energy Center 4	Unit Capacity (MW)	
	1 Annual	Riverton 10	Unit Capacity (MW)	
	1 Annual	Riverton 11	1 Unit Capacity (MW)	
	1 Annual	Stateline CT1	Unit Capacity (MW)	
	1 Annual	Stateline CC1	Unit Capacity (MW)	
	1 Annual	Stateline CC2	Unit Capacity (MW)	
	1 Annual	Iatan 2	14 Unit Capacity (MW)	
	1 Annual	Plum Point 1	Unit Capacity (MW)	
	1 Annual	Riverton 12	1 Unit Capacity (MW)	
	1 Annual	Riv 12 CC	17 Unit Capacity (MW)	
	1 Annual	CC-2029	7 Unit Capacity (MW)	
	1 Annual	CC-2035	7 Unit Capacity (MW)	
	1 Annual	ELRIV PPA	M Unit Capacity (MW)	
	1 Annual	Merid Way	N Unit Capacity (MW)	
	1 Annual	Ozark Beach	N Unit Capacity (MW)	
	1 Annual	NEW S SOLAR	Unit Capacity (MW)	
	1 Annual	Reser ved	MF Unit Capacity (MW)	
	1 Annual	29KSA Year 1-3	1 Unit Capacity (MW)	
	1 Annual	31KSA Year 1-3	1 Unit Capacity (MW)	
	1 Annual	29KSB Year 4-40	Unit Capacity (MW)	
	1 Annual	31KSB Year 4-40	Unit Capacity (MW)	
	1 Annual	Total Resources	Unit Capacity (MW)	

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028

2029

2030

2031

2032

2033

2034

2035

2036

2037

Endpoint	Month	Generating unit	Variables/Year	2018	2019
	2 Annual	Asbury 1 1	Unit Capacity (MW)		
	2 Annual	Iatan 1 2	Unit Capacity (MW)		
	2 Annual	Energy Center 1 3	Unit Capacity (MW)		
	2 Annual	Energy Center 2 4	Unit Capacity (MW)		
	2 Annual	Energy Center 3 5	Unit Capacity (MW)		
	2 Annual	Energy Center 4 6	Unit Capacity (MW)		
	2 Annual	Riverton 10 9	Unit Capacity (MW)		
	2 Annual	Riverton 11 10	Unit Capacity (MW)		
	2 Annual	Stateline CT1 11	Unit Capacity (MW)		
	2 Annual	Stateline CC1 12	Unit Capacity (MW)		
	2 Annual	Stateline CC2 13	Unit Capacity (MW)		
	2 Annual	Iatan 2 14	Unit Capacity (MW)		
	2 Annual	Plum Point 1 15	Unit Capacity (MW)		
	2 Annual	Riverton 12 16	Unit Capacity (MW)		
	2 Annual	Riv 12 CC 17	Unit Capacity (MW)		
	2 Annual	CC-2035 77	Unit Capacity (MW)		
	2 Annual	Reser ved MP	Unit Capacity (MW)		
	2 Annual	Total Resources	Unit Capacity (MW)		
	2 Annual	CC-2026 68	Unit Capacity (MW)		
	2 Annual	CC-2033 75	Unit Capacity (MW)		

2020

2021

2022

2023

2024

2025

2026

2027

2028

2029

2030

2031

2032

2033

2034

2035

2036

2037

CONFIDENTIAL

ATTACHMENT 9: RES RETAIL RATE IMPACT

The Empire District Electric Company 2017 RES Filing

The Empire District Electric Company (“Empire”) requested that ABB perform modeling for their Electric Utility Renewable Energy Standard (RES) Requirements. The modeling included calculating the retail rate impact per section 5 of Missouri 4 CSR 240-20.100 (the “Rule”).

Assumptions:

Rule 5 (B) 1 states that the non-renewable generation and purchase power portfolio shall be determined by adding, to the utility’s existing generation and purchased power resource portfolio excluding all renewable resources, additional non-renewable resources sufficient to meet the utility’s needs on a least-cost basis for the next ten (10) years. To achieve this portfolio, ABB removed the following renewables from the 2016 IRP resources; 1) Elk River and Meridian Way Wind – 36 MWs of Accredited Capacity, Ozark Beach Hydro – 16 MWs of Accredited Capacity, 2029 Future Wind – 15 MWs of Accredited Capacity and 2031 Future wind – 22.5 MWs of Accredited Capacity . In addition, the impact of the residential and commercial solar additions that were removed from the load forecast by Itron were added back. To account for the loss of capacity, the 2029 combined cycle was brought on in 2026 and an additional 100 MW combined cycle was added in 2033 in order to maintain a minimum capacity margin of 12%.

Rule 5 (B) 2 states that the RES-compliant portfolio shall be determined by adding to the utility’s existing generation and purchased power resource portfolio an amount of least cost renewable resources sufficient to achieve the portfolio requirements set forth in section (2) of this rule and an amount of least-cost non-renewable resources, the combination of which is sufficient to meet the utility’s needs for the next ten (10) years. ABB is using the preferred plan (Plan 5) from Empire’s latest IRP filing. Plan 5 included renewable resources that meet the RES requirements set forth in section (2). As required by rule 5 (C), rebates made during each calendar year were also included in the cost of generation from renewable energy resources. 2015-2017 budgeted solar capacity was updated with actual solar rebated operational capacity. The difference between actual and budget was added as a solar resource in order to offset the impact on the load forecast. 2015-2017 budgeted solar rebates paid were also updated for actuals.

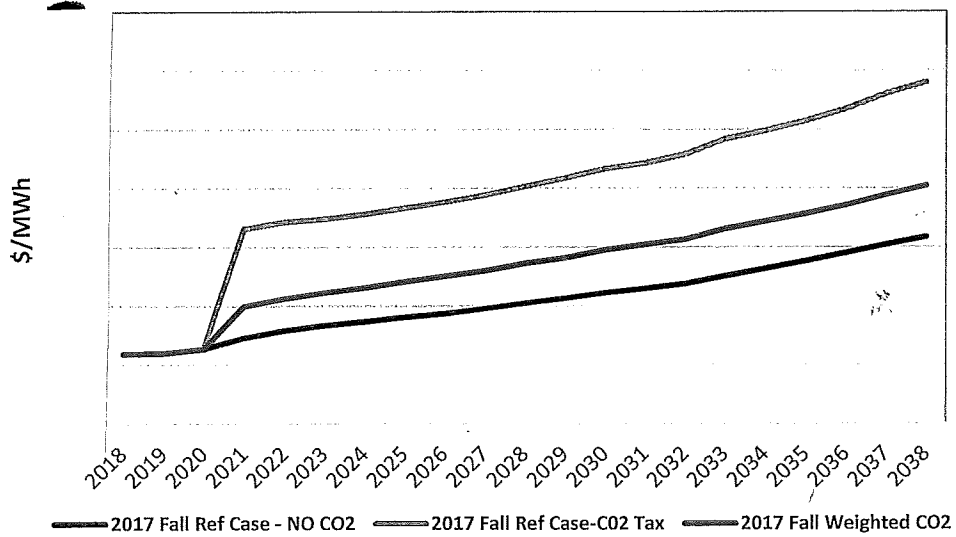
Rule 5 (B) 4 states that the assumptions regarding projected renewable energy resource additions will utilize the most recent electric utility resource planning analysis. Weighting of the greenhouse gas emissions and market prices were developed using ABB’s 2017 Fall Midwest Power Reference Case. A 70% weighting was given to the no-carbon tax scenario and 30% to the carbon tax scenario.

Table 1 includes the expected value of costs associated with greenhouse gas emissions used in this analysis. Weighted market prices were developed in ABB's 2017 Fall Reference Case database with modifications that included a weighted carbon tax. Figure 1 includes market prices for the SPP-KSMO market area with the impact of a carbon tax beginning in 2021.

Table 1 Expected Value Carbon Tax

Year	70% No Carbon	30% Fall 2017 Ref Case	Expected Value
2017	-		
2018	-		
2019	-		
2020	-		
2021	-		
2022	-		
2023	-		
2024	-		
2025	-		
2026	-		
2027	-		
2028	-		
2029	-		
2030	-		
2031			
2032			
2033			
2034			
2035			
2036			
2037			

Figure 1 SPP-KSMO 7 x 24 Weighted Market Prices (Nominal \$/MWh)



Results:

The following table shows the 1% calculation for the 10 year average over the succeeding 10-year period required by Rule 5 (B).

Table 2 Annual Revenue Requirements

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Total
Actual Spend - 2018-2027											
Budget - 2018-2027											
Revenue Requirements 2018-2027											
Budget % of Revenue Requirements											
Actual % of Revenue Requirements	2.6%	2.5%	2.2%	0.1%	-0.2%	-0.4%	-0.8%	-1.2%	-1.5%	-3.9%	-0.1%

The following tables summarize the Retail Rate Impact calculation required by Rule 5 (G).

Table 3 2018-2027 RRI Calculation Period

2018-2027 RRI Calculation Period	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
Baseline Revenue Req (MM\$)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)											
Plus Prior Carryover	8.455										
Cumulative carryover - over/(under)	17.382	25.737	32.823	27.568	19.981	11.233	-0.261	-15.032	-31.759	-66.265	

Table 4 2019-2028 RRI Calculation Period

2019-2028 RRI Calculation Period	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Cumulative
Baseline Revenue Req (MM\$)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	8.356	7.085	-5.254	-7.588	-8.747	-11.494	-14.771	-16.727	-34.506	-33.097	
Plus Prior Carryover	17.382										
Cumulative carryover - over/(under)	25.737	32.823	27.568	19.981	11.233	-0.261	-15.032	-31.759	-66.265	-99.361	

Table 5 2020-2029 RRI Calculation Period

2020-2029 RRI Calculation Period	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Cumulative
Baseline Revenue Req (MM\$)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	7.085	-5.254	-7.588	-8.747	-11.494	-14.771	-16.727	-34.506	-33.097	-46.231	
Plus Prior Carryover	25.737										
Cumulative carryover - over/(under)	32.823	27.568	19.981	11.233	-0.261	-15.032	-31.759	-66.265	-99.361	-145.593	

Table 6 2021-2030 RRI Calculation Period

2021-2030 RRI Calculation Period											Cumulative	
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
Baseline Revenue Req (MM\$)											10-Year "Budget"	"Budget"
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)	-5.254	-7.588	-8.747	-11.494	-14.771	-16.727	-34.506	-33.097	-46.231	3.948		
Plus Prior Carryover	32.823											
Cumulative carryover - over/(under)	27.568	19.981	11.233	-0.261	-15.032	-31.759	-66.265	-99.361	-145.593	-141.645		

Table 7 2022-2031 RRI Calculation Period

2022-2031 RRI Calculation Period											Cumulative	
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
Baseline Revenue Req (MM\$)											10-Year "Budget"	"Budget"
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)	-7.588	-8.747	-11.494	-14.771	-16.727	-34.506	-33.097	-46.231	3.948	-18.097		
Plus Prior Carryover	27.568											
Cumulative carryover - over/(under)	19.981	11.233	-0.261	-15.032	-31.759	-66.265	-99.361	-145.593	-141.645	-159.742		

Table 8 2023-2032 RRI Calculation Period

2023-2032 RRI Calculation Period											Cumulative	
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032		
Baseline Revenue Req (MM\$)												
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)	-8.747	-11.494	-14.771	-16.727	-34.506	-33.097	-46.231	3.948	-18.097	29.216		
Plus Prior Carryover	19.981											
Cumulative carryover - over/(under)	11.233	-0.261	-15.032	-31.759	-66.265	-99.361	-145.593	-141.645	-159.742	-130.526		

Table 9 2024-2033 RRI Calculation Period

2024-2033 RRI Calculation Period											Cumulative	
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		
Baseline Revenue Req (MM\$)												
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)												
Plus Prior Carryover	11.233											
Cumulative carryover - over/(under)	-0.261	-15.032	-31.759	-66.265	-99.361	-145.593	-141.645	-159.742	-130.526	-107.525		

Table 10 2025-2034 RRI Calculation Period

2025-2034 RRI Calculation Period											Cumulative	
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034		
Baseline Revenue Req (MM\$)											10-Year "Budget"	"Budget"
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)	-14.771	-16.727	-34.506	-33.097	-46.231	3.948	-18.097	29.216	23.001	-4.170		
Plus Prior Carryover	-0.261											
Cumulative carryover - over/(under)	-15.032	-31.759	-66.265	-99.361	-145.593	-141.645	-159.742	-130.526	-107.525	-111.695		

Table 11 2026-2035 RRI Calculation Period

2026-2035 RRI Calculation Period	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035		Cumulative
Baseline Revenue Req (MM\$)												
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)	-16.727	-34.506	-35.097	-46.251	-3.948	-18.097	-29.219	25.001	-41.170	-11.502		
Plus Prior Carryover	-15.032											
Cumulative carryover - over/(under)	-31.759	-66.265	-99.361	-145.593	-141.645	-159.742	-130.526	-107.525	-111.695	-122.997		

Table 12 2027-2036 RRI Calculation Period

2027-2036 RRI Calculation Period	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036		Cumulative
Baseline Revenue Req (MM\$)												
Annual 1% (MM\$)												
Actual Costs												
Annual Over/(Under)												
Plus Prior Carryover	-66.265											
Cumulative carryover - over/(under)	-66.265	-99.361	-145.593	-141.645	-159.742	-130.526	-107.525	-111.695	-122.997	-140.017		