



**Empire District**  
A Liberty Utilities Company

April 12, 2017

Missouri Public Service Commission

Re: 2016 Annual Renewable Energy Standard Compliance Report: Non-proprietary Information

This version of the Annual Compliance Report is a fully completed version. Portions of this report contain confidential information which has been removed.

# **EMPIRE DISTRICT ELECTRIC COMPANY**

**2016**

## **ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE REPORT**

**Prepared in Compliance with 4 CSR 240-20.100**

**April 2017**



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# 2016 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 2016 RES Compliance Report on or before April 15, 2017.

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 2015 and 2016 in meeting the 2016 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 2016.

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 2016 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 2016 Total Retail Sales**

<b>Year</b>	<b>MWh</b>	<b>Revenue</b>
2016	4,072,975	\$459,892,807

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 2016. With 4,072,975 MWh total retail electric sales for 2016, 56,046 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, 129,519 RECs from 2015 and 2016 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, 3,261 Solar RECs (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 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 2016 Missouri RES**

Missouri Retail Sales	RES Requirement	<sup>1</sup> Non-Solar RECs Retired	Solar RES Requirement	<sup>2</sup> Solar RECs Retired	Total RECs Retired
4,072,975	203,649		4,073		
		56,046 (Ozark Beach 1.25 Mo Source)		3,261 (EDE Solar Aggregates 1.25 Mo Source)	
		129,519 (Elk River)			
<b>Total</b>		<b>199,576</b>		<b>4,076</b>	<b>203,652</b>

<sup>1</sup>Vintage 2015 and 2016 RECs from Ozark Beach (Missouri source) and Vintage 2015 and 2016 RECs from Elk River were retired for compliance with the Missouri RES.

<sup>2</sup> 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 2016, EDE-owned Ozark Beach generated energy which allowed for the creation of 55,378 RECs. Using the provision of the Missouri RES allowing for additional credit of 0.25, the resultant RECs available for compliance totaled 69,222 RECs (55,378 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. EDE plans to bank the RECs remaining after 2016 compliance for future RES compliance.

The value of the energy generated by Ozark Beach for calendar year 2016 was \* [REDACTED] MWh as determined by the locational marginal pricing through the Southwest Power Pool (SPP). The value of the customer generated solar energy was \* [REDACTED] SREC \*

## **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 2016, 56,046 vintage 2015 and 2016 RECs from hydroelectric generation at Ozark Beach were retired to help fulfill the non-solar Missouri compliance obligation. In addition, 113,861 vintage 2015 and 2016 RECs from generation at the Elk River Windfarm were retired for the non-solar RES obligation for 2016. In March of 2017, 15,658 additional 2016 RECs from wind generation at Elk River were retired.

To meet the solar obligation, 3,261 SRECs generated from EDE customers in 2015 and 2016 were obtained. In total, 3,261 SRECs were retired in March of 2017 to fulfill the solar 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, 185,565 RECs and 3,261 SRECs were retired to fulfill the 2016 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 13 are registered with 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 2016 compliance, 2015 and 2016 Ozark Beach vintage RECs totaling 56,046 were retired for compliance using the 3-year banking provision. 9,472 Ozark Beach RECs from 2016 were carried forward into 2017. For the 2016 compliance year 129,519 Elk River RECs vintage 2015 and 2016 RECs were retired for compliance. Carried forward are additional 2015 Elk River RECs totaling 369,684. 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 8,778 were carried forward from 2016 for use in future compliance.

In addition to the RECs registered with the NARR EDE receives additional RECs from the Meridian Way Wind Farm. These RECs 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 190<sup>th</sup> 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 2016 SRECS were acquired by EDE as a condition of receiving the solar rebate instituted in May of 2015 and extending through 2016.

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

The total number of customers that applied and received a solar rebate by December 31, 2016 in accordance with section (4) of the Rule:

**Table 4: Customers Receiving Solar Rebate**

DESCRIPTION	NUMBER OF CUSTOMERS
RECEIVED A SOLAR REBATE PRIOR TO 12/31/2016	663

### **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**

**Table 5: Annual Funds Expended by EDE for Solar Rebates**

DESCRIPTION	FUNDS EXPENDED
SOLAR REBATES PAID PRIOR TO 12/31/2016	\$8,034,812

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

See Affidavit of Compliance with 2016 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 the Missouri RES Compliance Plan for the 2016 compliance period.

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

See ATTACHMENT9. The calculations in ATTACHMENT 9 are based on total company not Missouri jurisdictional.

EMPIRE

2016 RES REPORT

ATTACHMENT 1

RECS ACQUIRED

\*ALL DOCUMENTS CONSIDERED PROPRIETARY\*

HIGHLY CONFIDENTIAL

PROPRIETARY

RECVD  
2-11-16  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

**RECEIVED**  
**FEB 11 2016**  
**ACCOUNTING**

## INVOICE

Invoice Date: February 3, 2016  
Due Date: February 23, 2016

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #29432  
Customer #: 900166

Description	
Pre-payment and monthly billing for energy and renewable energy credits.	
Prior Month Prepayment Balance January-16	Delivered Generation: 41,229 kWh
Prepay Surplus/Deficiency	
Current Month Prepayment	Prepay
Plus: Prepay Surplus or Deficiency	Total
<b>Grand Total Paid</b>	\$

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

253 - 165500

JP Morgan Chase  
Chicago, IL  
ABA No. [REDACTED]  
ACH ABA No. [REDACTED]  
For Account of Aeolus Wind Power II LLC.  
Account No. [REDACTED]

Iberdrola Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

**Total Amount Due To Elk River Windfarm, LLC: \$ [REDACTED]**

Finance charges will be applied to accounts that are not paid in full by the stated due date.  
If you do not agree with the due date shown above, please contact Chris Evidente

*Stavne  
2/23/16*

*P*

RECVD  
3-10-16  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: March 3, 2016  
Due Date: March 23, 2016

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #30541  
Customer #: 900166

### Description

Pre-payment and monthly billing for energy and renewable energy credits.

Prior Month Prepayment Balance	Delivered Generation:	1,679,781.82
February-16	4,239,000.00	1,679,781.82
Prepay Surplus/Deficiency		1,679,781.82
Current Month Prepayment	Prepay	1,679,781.82
Plus: Prepay Surplus or Deficiency		1,679,781.82
	Total	1,679,781.82
Grand Total Paid		\$ 1,679,781.82

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

253 - 165500

JP Morgan Chase  
Chicago, IL  
ABA No. 021000021  
ACH ABA No. 021000013  
For Account of Aeolus Wind Power II LLC.  
Account No. 027119460

Iberdrola Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 1,679,781.82

Finance charges will be applied to accounts that are not paid in full by the stated due date.  
If you do not agree with the due date shown above, please contact Chris Evidente

sched 3-23-16  
dl



recvd  
4-12-16  
acctg

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

253 - 165500

Invoice Date: April 4, 2016  
Due Date: April 25, 2016

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #31303  
Customer #: 900166

### Description

Pre-payment and monthly billing for energy and renewable energy credits.

Prior Month Prepayment Balance	Delivered Generation:	1,990,417.00
February-16		1,745,433.00
Prepay Surplus/Deficiency		244,984.00
Current Month Prepayment	Prepay	200,117.00
Plus: Prepay Surplus or Deficiency		445,101.00
	Total	736,333.00
Grand Total Paid		\$ 736,333.00

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 031000033  
ACH ABA No. 071000013  
For Account of Aeolus Wind Power II LLC.  
Account No. 027112468

Iberdrola Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 736,333.00

Finance charges will be applied to accounts that are not paid in full by the stated due date.

SCHED 4-22-16  
CR

RECVD  
6-13-16  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: June 2, 2016  
Due Date: June 22, 2016

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #33564  
Customer #: 900166

### Description

Pre-payment and monthly billing for energy and renewable energy credits.

Prior Month Prepayment Balance	Delivered Generation: 37,684 MWh	1,290,417.00
April-16		1,167,073.48
Prepay Surplus/Deficiency		123,343.52
Current Month Prepayment	Prepay	1,290,417.00
Plus: Prepay Surplus or Deficiency		123,343.52
	Total	1,167,073.48
Grand Total Paid		\$ 1,167,073.48

253 - 165500

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 021000021  
ACH ABA No. 071000013  
For Account of Aeolus Wind Power II LLC.  
Account No. 47117458

Iberdrola Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 1,167,073.48

Finance charges will be applied to accounts that are not paid in full by the stated due date.

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6/22/16

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RECEIVED

JUL 12 2016

Elk River Windfarm, LLC

ACCOUNTING

An Oregon Limited Liability Company

INVOICE

Invoice Date: July 5, 2016
Due Date: July 25, 2016

The Empire District Electric Co.
Attn: Kristy Tackett
602 Joplin Street
PO Box 127
Joplin, MO 64802

Phone: (417) 625-6194
Fax: (417) 625-5173

Invoice #: #34602
Customer #: 900166

Description

Pre-payment and monthly billing for energy and renewable energy credits.

Table with 2 columns: Description and Amount. Rows include Prior Month Prepayment Balance, Delivered Generation, Prepay Surplus/Deficiency, Current Month Prepayment, Plus: Prepay Surplus or Deficiency, Total, and Grand Total Paid.

Handwritten number: 253-165500

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase
Chicago, IL
ABA No.
ACH ABA No.
For Account of Aeolus Wind Power II LLC.
Account No.

Iberdrola Contact: christopher.evidente@iberdrolaren.com
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 1,004,326.13

Finance charges will be applied to accounts that are not paid in full by the stated due date.

Rec'd 7.25.16
DK

P

RECVD  
8-10-16  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: August 3, 2016  
Due Date: August 23, 2016

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

253-165500

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #36461  
Customer #: 900166

### Description

Pre-payment and monthly billing for energy and renewable energy credits.

Prior Month Prepayment Balance		1,290,417.00
July-16	Delivered Generation: 36,739 kWh	1,137,806.83
Prepay Surplus/Deficiency		152,610.17
Current Month Prepayment	Prepay	1,290,417.00
Plus: Prepay Surplus or Deficiency		1,137,806.83
	Total	1,137,806.83
Grand Total Paid		\$ 1,137,806.83

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 021000021  
ACH ABA No. 071000013  
For Account of Aeolus Wind Power II LLC.  
Account No. 027112466

Iberdrola Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 1,137,806.83

Finance charges will be applied to accounts that are not paid in full by the stated due date.

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8-23-16  
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SEP 12 2016

Elk River Windfarm, LLC

An Oregon Limited Liability Company

ACCOUNTING

INVOICE

Invoice Date: September 6, 2016
Due Date: September 26, 2016

The Empire District Electric Co.
Attn: Kristy Tackett
602 Joplin Street
PO Box 127
Joplin, MO 64802

Handwritten: 253-165500

Phone: (417) 625-6194
Fax: (417) 625-5173

Invoice #: #37557
Customer #: 900166

Description

Pre-payment and monthly billing for energy and renewable energy credits.

Table with 3 columns: Description, Amount, and Total. Rows include Prior Month Prepayment Balance August-16, Delivered Generation, Prepay Surplus/Deficiency, Current Month Prepayment, Plus: Prepay Surplus or Deficiency, and Grand Total Paid.

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase
Chicago, IL
ABA No.
ACH ABA No.
For Account of Aeolus Wind Power II LLC.
Account No.

Iberdrola Contact: christopher.evidente@iberdrolaren.com
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 823,430.36

Finance charges will be applied to accounts that are not paid in full by the stated due date.

Handwritten notes: Rec. Sept 2-26-16

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: October 4, 2016  
Due Date: October 24, 2016

# RECEIVED

## OCT 13 2016

# ACCOUNTING

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #37940  
Customer #: 900166

### Description

Pre-payment and monthly billing for energy and renewable energy credits.

Prior Month Prepayment Balance	Delivered Generation: 37,519 MWH,	1,290,417.00
September-16		1,161,963.43
Prepay Surplus/Deficiency		128,453.57
Current Month Prepayment	Prepay	1,290,417.00
Plus: Prepay Surplus or Deficiency		128,453.57
Total		1,161,963.43
Grand Total Paid		\$ 1,161,963.43

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 021000021  
ACH ABA No. 071000013  
For Account of Aeolus Wind Power II LLC.  
Account No. 027112468

Avangrid Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 1,161,963.43

Finance charges will be applied to accounts that are not paid in full by the stated due date.

253 - 1165500

Revised  
10-29-16  
OK

P

RECVD  
11-8-16  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: November 2, 2016  
Due Date: November 22, 2016

253 - 165500

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #39050  
Customer #: 900166

### Description

Pre-payment and monthly billing for energy and renewable energy credits.

Prior Month Prepayment Balance	Delivered Generation: 51,249 MWH,	1,290,417.00
October-16		1,587,150.50
Prepay Surplus/Deficiency		(296,733.50)
Current Month Prepayment	Prepay	1,290,417.00
Plus: Prepay Surplus or Deficiency		(296,733.50)
Total		1,587,150.50
Grand Total Paid		\$ 1,587,150.50

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 071000021  
ACH ABA No. 071000021  
For Account of Aeolus Wind Power II LLC.  
Account No. 27112363

Avangrid Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC:

\$ 1,587,150.50

Finance charges will be applied to accounts that are not paid in full by the stated due date.

SCHED 11-22-16  
SV

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DEC 12 2016

ACCOUNTING

**Elk River Windfarm, LLC**

An Oregon Limited Liability Company

**INVOICE**

Invoice Date: December 5, 2016  
Due Date: December 27, 2016

22 MC

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #40595  
Customer #: 900166

Description		
Pre-payment and monthly billing for energy and renewable energy credits.		
Prior Month Prepayment Balance November-16	Delivered Generation: 45,955 MWH	1,423,288.20
Prepay Surplus/Deficiency		1,290,417.00
Current Month Prepayment	Prepay	1,423,288.20
Plus: Prepay Surplus or Deficiency	Total	1,423,288.20
<b>Grand Total Paid</b>		\$ 1,423,288.20

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 021000021  
ACH ABA No. 071000017  
For Account of Aeolus Wind Power II LLC.  
Account No. 27113168

Avangrid Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

253165500

**Total Amount Due To Elk River Windfarm, LLC:** \$ 1,423,288.20

Finance charges will be applied to accounts that are not paid in full by the stated due date.

P



RECEIVED

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

JAN 16 2017

## INVOICE

## ACCOUNTING

Invoice Date: January 3, 2016  
Due Date: January 23, 2016

The Empire District Electric Co.  
Attn: Kristy Tackett  
602 Joplin Street  
PO Box 127  
Joplin, MO 64802

Phone: (417) 625-6194  
Fax: (417) 625-5173

Invoice #: #41269  
Customer #: 900166

Description		
Pre-payment and monthly billing for energy and renewable energy credits.		
Prior Month Prepayment Balance		1,290,417.00
December-16	Delivered Generation: 41,419 MWH,	1,282,746.43
Prepay Surplus/Deficiency		7,670.57
Current Month Prepayment	Prepay	1,290,417.00
Plus: Prepay Surplus or Deficiency		7,670.57
	Total	2,582,746.43
Grand Total Paid		\$ 2,582,746.43

Net Terms: Due 20 days after receipt of invoice by wire transfer to:

JP Morgan Chase  
Chicago, IL  
ABA No. 011000021  
ACH ABA No. 073000113  
For Account of Aeolus Wind Power II LLC.  
Account No. 07112460

253-165500

Avangrid Contact: christopher.evidente@iberdrolaren.com  
Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC: \$ 2,582,746.43

Finance charges will be applied to accounts that are not paid in full by the stated due date.

*Handwritten:*  
Paid here  
1-23-17  
JK

P

**INVOICE**

**RECEIVED**  
**FEB 11 2016**  
**ACCOUNTING**

**Cloud County Wind Farm LLC**

808 Travis St Ste 700  
 Houston, TX 77002  
 PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
 602 S Joplin St  
 Joplin, MO 64802  
 Attn: Accounts Payable  
 Fax: (417) 625-5173  
 Delivered Via Email: ktackett@empiredistrict.com

**INVOICE NO.**  
 CCE 0116  
**TERMS**  
 Net 10  
**INVOICE DATE**  
 2/9/2016  
**DUE DATE**  
 2/19/2016

*SVanner  
 2/19/16*

<b>January-2016</b>			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	24,807	19.00	\$ 471,333
Lost Production			
Availability LDs			
<b>Total Amount Due</b>			<b>\$ 471,333</b>

555430-253-PP

*This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.*

*Facility Completion Date was declared 12/23/2008. First Half Contract Price = 19.00/MWh. Second Half Contract Price = 10.75/MWh.*

Please remit payment to:

**JP Morgan Chase**  
 Routing No: 11000617  
 Account No: 5407211  
 Account Name: Cloud County  
 Ref: CCE Power Production

*For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568*

P

RECEIVED

555430 - 253 - PP

MAR 10 2016

INVOICE

ACCOUNTING

Cloud County Wind Farm LLC

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

<b>INVOICE NO.</b>
CCE 0216
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
3/7/2016
<b>DUE DATE</b>
3/17/2016

February-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	31,783	39.00	\$ 1,239,459
Lost Production			
Availability LDs			
<b>Total Amount Due</b>			

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.  
Facility Completion Date was declared 12/23/2008. First Half Contract Price = \$39.00/MWh. Second Half Contract Price = \$40.75/MWh.

Please remit payment to:

**JP Morgan Chase**  
Routing No: 011000514  
Account No: 54407211  
Account Name: Cloud County  
Ref: CCE Power Production  
For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

Handwritten notes: Date 3-17-16 JP

Red handwritten mark

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INVOICE

APR 12 2016

# Cloud County Wind Farm LLC

ACCOUNTING

808 Travis St Ste 700

Houston, TX 77002

PH: (713) 265-0350 FAX: (713) 265-0365

## The Empire District Electric Company

602 S Joplin St

Joplin, MO 64802

Attn: Accounts Payable

Fax: (417) 625-5173

Delivered Via Email: ktackett@empiredistrict.com

### INVOICE NO.

CCE 0316

### TERMS

Net 10

### INVOICE DATE

4/12/2016

### DUE DATE

4/22/2016

253 - 555430

## March-2016

	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	35,295	38.61	\$ 1,375,509
Lost Production	3,911	77.47	\$ 303,111
Availability LDs			
<b>Total Amount Due</b>			<b>\$ 1,678,620</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.

Facility Completion Date was declared 12/23/2008. First Half Contract Price = \$39.00/MWh. Second Half Contract Price = \$40.75/MWh.

Please remit payment to:

### JP Morgan Chase

Routing No: 11000614

Account No: 754407211

Account Name: Cloud County

Ref: CCE Power Production

For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

P  
4-21-16  
OR

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MAY 12 2016

INVOICE

ACCOUNTING

### Cloud County Wind Farm LLC

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

<b>INVOICE NO.</b>
CCE 0416
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
5/10/2016
<b>DUE DATE</b>
5/20/2016

253 - 555430

April-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	33,609	39.00	\$ 1,310,751
Lost Production	0.00	77.47	\$ -
Availability LDs			
<b>Total Amount Due</b>			<b>\$ 1,310,751</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.  
Facility Completion Date was declared 12/23/2008. First Half Contract Price = \$39.00/MWh. Second Half Contract Price = \$40.75/MWh.

Please remit payment to:  
**JP Morgan Chase**  
Routing No: 11000514  
Account No: 754407211  
Account Name: Cloud County  
Ref: CCE Power Production  
For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

Wanna  
5/20/16

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JUN 13 2016

INVOICE

ACCOUNTING

Cloud County Wind Farm LLC

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

<b>INVOICE NO.</b> CCE 0516
<b>TERMS</b> Net 10
<b>INVOICE DATE</b> 6/9/2016
<b>DUE DATE</b> 6/20/2016

May-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production	[REDACTED]	[REDACTED]	\$ [REDACTED]
Availability LDs			
<b>Total Amount Due</b>			<b>\$ [REDACTED]</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.  
Facility Completion Date was declared 12/23/2008. First Half Contract Price = [REDACTED] /MWh. Second Half Contract Price = [REDACTED] /MWh.

Please remit payment to:  
**JP Morgan Chase**  
Routing No: [REDACTED]  
Account No: [REDACTED]  
Account Name: Cloud County  
Ref: CCE Power Production  
For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

253-55430

SV am  
6/20/16

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RECEIVED

JUL 12 2016

INVOICE

**ACCOUNTING Cloud County Wind Farm LLC**

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**

602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

**INVOICE NO.**

CCE 0616

**TERMS**

Net 10

**INVOICE DATE**

7/11/2016

**DUE DATE**

7/21/2016

253-555430

June-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	90,430	39.00	\$ 3,538,770
Lost Production	0.00	77.47	\$ -
Availability LDs			
<b>Total Amount Due</b>			<b>\$ 3,538,770</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.

Facility Completion Date was declared 12/23/2008. First Half Contract Price \$39.00/MWh. Second Half Contract Price = \$40.75/MWh.

Please remit payment to:

**JP Morgan Chase**

Routing No: 11000614

Account No: 54407211

Account Name: Cloud County

Ref: CCE Power Production

For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

Rec'd by  
7/21/16  
JH

P

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AUG 10 2016

INVOICE

ACCOUNTING Cloud County Wind Farm LLC

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

<b>INVOICE NO.</b>
CCE 0716
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
8/9/2016
<b>DUE DATE</b>
8/19/2016

253 - 5554/30

July-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	██████	██████	\$ ██████
Lost Production	██████	██████	\$ ██████
Availability LDs			
<b>Total Amount Due</b>			<b>\$ ██████</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.  
Facility Completion Date was declared 12/23/2008. First Half Contract Price = ██████ MWh. Second Half Contract Price = ██████ MWh.

Please remit payment to:

**JP Morgan Chase**  
Routing No: ██████  
Account No: ██████  
Account Name: Cloud County  
Ref: CCE Power Production

For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

for file  
8/17/16  
DJH



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SEP 12 2016

INVOICE

ACCOUNTING

Cloud County Wind Farm LLC

808 Travis St Ste 700

Houston, TX 77002

PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**

602 S Joplin St

Joplin, MO 64802

Attn: Accounts Payable

Fax: (417) 625-5173

Delivered Via Email: ktackett@empiredistrict.com

**INVOICE NO.**

CCE 0816

**TERMS**

Net 10

**INVOICE DATE**

9/8/2016

**DUE DATE**

9/19/2016

253-555430

August-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production	[REDACTED]	[REDACTED]	\$ [REDACTED]
Availability LDs			
<b>Total Amount Due</b>			<b>\$ [REDACTED]</b>

600-6074  
9-17-16  
JL

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.

Facility Completion Date was declared 12/23/2008. First Half Contract Price [REDACTED] MWh. Second Half Contract Price = [REDACTED] MWh.

Please remit payment to:

**JP Morgan Chase**

Routing No: [REDACTED]

Account No: [REDACTED]

Account Name: Cloud County

Ref: CCE Power Production

For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

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INVOICE

OCT 13 2016

Cloud County Wind Farm LLC

ACCOUNTING

808 Travis St Ste 700

Houston, TX 77002

PH: (713) 265-0350 FAX: (713) 265-0365

The Empire District Electric Company

602 S Joplin St

Joplin, MO 64802

Attn: Accounts Payable

Fax: (417) 625-5173

Delivered Via Email: ktackett@empiredistrict.com

INVOICE NO.

CCE 0916

TERMS

Net 10

INVOICE DATE

10/10/2016

DUE DATE

10/20/2016

253 - 555430

September-2016

	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	10,664	19.00	\$ 1,026,360
Lost Production	0.00	7.50	\$ -
Availability LDs			
<b>Total Amount Due</b>			<b>\$ 1,026,360</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.

Facility Completion Date was declared 12/23/2008. First Half Contract Price = \$25.00/MWh. Second Half Contract Price = \$19.00/MWh.

Please remit payment to:

JP Morgan Chase

Routing No. 111000613

Account No. 754407211

Account Name: Cloud County

Ref: CCE Power Production

For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

Rec'd by  
10-20-16  
DK

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NOV 15 2016

INVOICE

ACCOUNTING

Cloud County Wind Farm LLC

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

<b>INVOICE NO.</b>
CCE 1016
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
11/11/2016
<b>DUE DATE</b>
11/21/2016

253-555430

MT

October-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production	[REDACTED]	[REDACTED]	\$ [REDACTED]
Availability LDs			
<b>Total Amount Due</b>			<b>\$ [REDACTED]</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.  
Facility Completion Date was declared 12/23/2008. First Half Contract Price = [REDACTED] MWh. Second Half Contract Price = [REDACTED] MWh.

Please remit payment to:  
**JP Morgan Chase**  
Routing No: [REDACTED]  
Account No: [REDACTED]  
Account Name: Cloud County  
Ref: CCE Power Production  
For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

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DEC 12 2016

INVOICE

ACCOUNTING

Cloud County Wind Farm LLC

808 Travis St Ste 700  
Houston, TX 77002  
PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
602 S Joplin St  
Joplin, MO 64802  
Attn: Accounts Payable  
Fax: (417) 625-5173  
Delivered Via Email: ktackett@empiredistrict.com

**INVOICE NO.**  
CCE 1116  
**TERMS**  
Net 10  
**INVOICE DATE**  
12/8/2016  
**DUE DATE**  
12/19/2016

MT

253-555430

November-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production	[REDACTED]	[REDACTED]	\$ [REDACTED]
Availability LDs			
<b>Total Amount Due</b>			<b>\$ [REDACTED]</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.  
Facility Completion Date was declared 12/23/2008. First Half Contract Price = [REDACTED] Wh. Second Half Contract Price = [REDACTED] Wh.

Please remit payment to:  
**JP Morgan Chase**  
Routing No: [REDACTED]  
Account No: [REDACTED]  
Account Name: Cloud County  
Ref: CCE Power Production  
For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

8

RECEIVED

INVOICE

JAN 16 2017  
ACCOUNTING

**Cloud County Wind Farm LLC**  
 808 Travis St Ste 700  
 Houston, TX 77002  
 PH: (713) 265-0350 FAX: (713) 265-0365

**The Empire District Electric Company**  
 602 S Joplin St  
 Joplin, MO 64802  
 Attn: Accounts Payable  
 Fax: (417) 625-5173  
 Delivered Via Email: ktackett@empiredistrict.com

**INVOICE NO.**  
CCE 1216

**TERMS**  
Net 10

**INVOICE DATE**  
1/11/2017

**DUE DATE**  
1/23/2017

253-855430

December-2016			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production	[REDACTED]	[REDACTED]	\$ [REDACTED]
Availability LDs			
<b>Total Amount Due</b>			<b>\$ [REDACTED]</b>

This invoice submitted per the terms and conditions of the Renewable Resource Power Purchase Agreement between Cloud County Wind Farm LLC and The Empire District Electric Company dated June 19, 2007.

Facility Completion Date was declared 12/23/2008. First Half Contract Price [REDACTED] Wh. Second Half Contract Price = [REDACTED] Wh.

Please remit payment to:

**JP Morgan Chase**  
 Routing No: [REDACTED]  
 Account No: [REDACTED]  
 Account Name: Cloud County  
 Ref: CCE Power Production

For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568

REC'D  
 1-23-17  
 [Signature]

P

EMPIRE

2016 RES REPORT

ATTACHMENT 2

RECS RETIRED

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

NP

Sub-Account	Sub-Account ID	Retirement Type	State	Compliance Period	Avoided Carbon	NAR ID	Asset	Fuel/Project Type	Certificate Vintage	Certificate Serial Numbers	Quantity	Transferor	MO Compliance	Equivalency	MO	KS
DefaultRET	270 RPS	RPS	MO	2016	2016	AGG2321	EDE Solar Aggregate #1	Solar	16-Dec	NAR-AGG-2321-MO-12-2016-67221-1 to 1274	1274		1592.5	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	AGG2322	EDE Solar Aggregate #2	Solar	16-Dec	NAR-AGG-2322-MO-12-2016-67222-1 to 1246	1246		1557.5	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	AGG2323	EDE Solar Aggregate #3	Solar	16-Dec	NAR-AGG-2323-MO-12-2016-67223-1 to 738	738		922.5	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	AGG2323	EDE Solar Aggregate #3	Solar	16-Dec	NAR-AGG-2323-MO-12-2016-67223-739 to 740	2		2.5	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	AGG2323	EDE Solar Aggregate #3	Solar	15-Dec	NAR-AGG-2323-MO-12-2015-62780-71 to 71	1		1.25	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	AGG2323	EDE Solar Aggregate #3	Solar	15-Dec	NAR-AGG-2323-MO-12-2015-62780-71 to 71	3261		4076.25	Yes	Yes	
2016 Kansas Goal	769 RPS	RPS	KS	2016	2016	GEN97	Elk River Wind - Elk River Wind	Wind	16-Mar	NAR-REC-97-KS-03-2016-63592-6981 to 42484	35504		35504	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN97	Elk River Wind - Elk River Wind	Wind	16-Mar	NAR-REC-97-KS-03-2016-63592-1 to 6980	6980		6980	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN97	Elk River Wind - Elk River Wind	Wind	16-Jan	NAR-REC-97-KS-01-2016-62525-1 to 41279	41279		41279	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN97	Elk River Wind - Elk River Wind	Wind	15-Mar	NAR-REC-97-KS-03-2015-34800-12091 to 39111	27021		27021	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN97	Elk River Wind - Elk River Wind	Wind	16-Feb	NAR-REC-97-KS-02-2016-63016-1 to 45561	45561		45561	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN97	Elk River Wind - Elk River Wind	Wind	16-Feb	NAR-REC-97-KS-02-2016-63016-45562 to 54239	8678		8678	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Sep	NAR-REC-99-MO-09-2016-65436-1 to 2764	2764		3455	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	15-Dec	NAR-REC-99-MO-12-2015-59837-1 to 6834	6834		8542.5	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Feb	NAR-REC-99-MO-02-2016-63017-1 to 4781	4781		5976.25	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Apr	NAR-REC-99-MO-04-2016-63942-1 to 4484	4484		5605	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Jul	NAR-REC-99-MO-07-2016-64996-1 to 6719	6719		8398.75	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Aug	NAR-REC-99-MO-08-2016-65182-1 to 6851	6851		8563.75	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-May	NAR-REC-99-MO-05-2016-64054-1 to 5404	5404		6755	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	15-Nov	NAR-REC-99-MO-11-2015-57975-1611 to 4916	3506		4132.5	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Jan	NAR-REC-99-MO-01-2016-62526-1 to 75	75		93.75	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Mar	NAR-REC-99-MO-03-2016-63591-1 to 9883	9883		12353.75	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Jun	NAR-REC-99-MO-06-2016-64521-1 to 4945	4945		6181.25	Yes	Yes	
DefaultRET	270 RPS	RPS	MO	2016	2016	GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric Water	16-Jun	NAR-REC-99-MO-06-2016-64521-1 to 4945	56046		70057.5	Yes	Yes	

NR

EMPIRE

2016 RES REPORT

ATTACHMENT 3

RECS CARRIED FORWARD

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

NP



NAR ID	Asset	Fuel/Project Type	Certificate Vintage	Certificate Serial Numbers	Quantity	MO Compliance Equivalency	MO
GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric	16-Oct	NAR-REC-99-MO-10-2016-66240-1 to 1508	1508	1885	Yes
GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric	16-Dec	NAR-REC-99-MO-12-2016-66951-1 to 4380	4380	5475	Yes
GEN99	Ozark Beach - Ozark Beach Hydro	Hydroelectric	16-Nov	NAR-REC-99-MO-11-2016-66519-1 to 3584	3584	4480	Yes
					9472		

NP

NAR ID	Asset	Fuel/Project Type	Certificate Vintage	Certificate Serial Numbers	MO Compliance		
					Quantity	Equivalency	MO
GEN97	Elk River Wind - Elk River Wind	Wind	16-Dec	NAR-REC-97-KS-12-2016-66952-1 to 41419	41419	41419	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Nov	NAR-REC-97-KS-11-2016-66518-1 to 45957	45957	45957	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Oct	NAR-REC-97-KS-10-2016-66239-1 to 51248	51248	51248	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Sep	NAR-REC-97-KS-09-2016-66424-1 to 37519	37519	37519	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Aug	NAR-REC-97-KS-08-2016-65183-1 to 26588	26588	26588	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Jul	NAR-REC-97-KS-07-2016-64995-1 to 36739	36739	36739	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Jun	NAR-REC-97-KS-06-2016-64520-1 to 32429	32429	32429	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-May	NAR-REC-97-KS-05-2016-64055-1 to 37684	37684	37684	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Apr	NAR-REC-97-KS-04-2016-66385-1 to 46520	46520	46520	Yes
GEN97	Elk River Wind - Elk River Wind	Wind	16-Mar	NAR-REC-97-KS-03-2016-63532-42485 to 56065	13581	13581	Yes
					369684		

Fuel/Project Certificate				MO Compliance				
NAR ID	Asset	Type	Vintage	Certificate Serial Numbers	Quantity	Transferor	Equivalency	MO
GEN366	Stanton So Solar		15-May	NAR-REC-366-FL-05-2015-45653-124 to 1075	952	3Degrees Gr	952	Yes
AGG2323	EDE Solar / Solar		16-Dec	NAR-AGG-2323-MO-12-2016-672223-741 to 114	409		511.25	Yes
AGG2372	EDE Solar / Solar		16-Dec	NAR-AGG-2372-MO-12-2016-672224-1 to 1278	1278		1597.5	Yes
AGG2375	EDE Solar / Solar		16-Dec	NAR-AGG-2375-MO-12-2016-672225-1 to 1189	1189		1486.25	Yes
AGG2376	EDE Solar / Solar		16-Dec	NAR-AGG-2376-MO-12-2016-672226-1 to 978	978		1222.5	Yes
AGG2377	EDE Solar / Solar		16-Dec	NAR-AGG-2377-MO-12-2016-672227-1 to 933	933		1166.25	Yes
AGG2378	EDE Solar / Solar		16-Dec	NAR-AGG-2378-MO-12-2016-672228-1 to 871	871		1088.75	Yes
AGG2379	EDE Solar / Solar		16-Dec	NAR-AGG-2379-MO-12-2016-672229-1 to 623	623		778.75	Yes
AGG2380	EDE Solar / Solar		16-Dec	NAR-AGG-2380-MO-12-2016-67230-1 to 592	592		740	Yes
AGG2381	EDE Solar / Solar		16-Dec	NAR-AGG-2381-MO-12-2016-67231-1 to 514	514		642.5	Yes
AGG2475	EDE Solar / Solar		16-Dec	NAR-AGG-2475-MO-12-2016-67232-1 to 347	347		433.75	Yes
AGG2476	EDE Solar / Solar		16-Dec	NAR-AGG-2476-MO-12-2016-67233-1 to 92	92		115	Yes
					8778			

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EMPIRE

2016 RES REPORT

ATTACHMENT 4

~~REC REPORT~~

REPORTS ARE CONSIDERED PROPRIETARY

HIGHLY CONFIDENTIAL

PROPRIETARY

Renewable Energy Certificate Position Report  
 Empire District Electric Company

Meridian Way 2016

	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016	December 2016	Total 2016
Expected REC's	24,000	28,275	31,900	32,700	29,400	25,700	18,500	22,400	25,800	30,000	28,100	31,900	329,675
**Actual REC's													
REC's Sold													
Counterparty													
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Commission \$'s													
Net Revenue (\$)	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Commission \$'s													
Net Revenue (\$)	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Commission \$'s													
Net Revenue (\$)	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Commission \$'s													
Net Revenue (\$)	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Cumulative Remaining RECs	0	0	0	0	0	0	0	0	0	0	59,546	61,562	61,562
Total Gross Revenue	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Total Expenses (Commission)	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Total Net Revenue	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

\*\*Actual REC's is Expected REC's until month expires

Renewable Energy Certificate Position Report  
 Empire District Electric Company

ELR Rtrcr 2016

	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016	December 2016	Total 2016
Expected REC's	51,300	28,275	58,800	61,200	45,800	42,700	33,700	38,400	35,300	52,800	53,200	55,200	556,675
**Actual REC's	41,279	54,239	42,484	46,520	37,584	32,429	35,739	26,568	37,613	51,248	45,957	41,419	1,000,000
MFO Compliance for 2016 NS Vol Compliance	0	0	0	0	0	0	0	0	0	0	0	0	0
Active	0	0	0	0	0	0	0	0	0	0	0	0	0
REC's Sold	0	0	0	0	0	0	0	0	0	0	0	0	0
Company													
Quantity													
Price (\$/REC)													
Gross Revenue													
Commission \$%													
Net Revenue (\$)													
Quantity													
Price (\$/REC)													
Gross Revenue													
Commission \$%													
Net Revenue (\$)													
Quantity													
Price (\$/REC)													
Gross Revenue													
Commission \$%													
Net Revenue (\$)													
Quantity													
Price (\$/REC)													
Gross Revenue													
Commission \$%													
Net Revenue (\$)													
Cumulative Remaining REC's	10,021	0	0	0	0	0	0	0	0	0	0	0	0
Total Gross Revenue													
Total Expense (Commission)													
Total Net Revenue													

\*\*Actual REC's is Expected REC's until month expires

EMPIRE

2016 RES REPORT

ATTACHMENT 5

WIND GENERATION ALLOCATION

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

ATTACHMENT 5

WIND GENERATION ALLOCATION FOR MO RETAIL CUSTOMERS 2016

Facility	Generation (MWh)	Percentage*	Energy Supplied to Missouri Retail Customers (MWh)
Elk River Windfarm	507,686	83.561%	424,227.50
Meridian Way Windfarm	316,736	83.561%	264,667.77

\* Allocation based on 12-month average CP Demand Factor

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EMPIRE

2016 RES REPORT

ATTACHMENT 6

ATTESTATIONS

HIGHLY CONFIDENTIAL

PROPRIETARY



# 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 190<sup>th</sup>, Latham, KS 67072

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

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

Date Facility was First Operational: 12/15/2005 Date of Capacity Upgrade or Repowering:<sup>3</sup> \_\_\_/\_\_\_/\_\_\_

Contact Person: Adam Cherry Title: Origination Analyst

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

### II. Renewable electricity or RECs<sup>4</sup> 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 <sup>5</sup>	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind *	151,584	Q1 2016
Wind	16,633	Q2 2016
Wind	100,846	Q3 2016
Wind	38,624 *	Q4 2016

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

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

<sup>3</sup> 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](http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc)

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

<sup>5</sup> 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 only<sup>6</sup> (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 CO<sub>2</sub> 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;<sup>7</sup>
- 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;<sup>8</sup> 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

<sup>6</sup> 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.

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

<sup>8</sup> 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.

NP

**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

2.17.2017  
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.**



# 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:<sup>1</sup> SPP

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

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

Contact Person: Daniel Saldanha Title: Settlements Manager

Telephone: 713-356-2568 Email Address: daniel.saldanha@edpr.com

### II. Renewable electricity or RECs<sup>4</sup> 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:

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

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

<sup>3</sup> 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](http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc)

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

Fuel Type <sup>5</sup>	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind	* [REDACTED]	01/2016
Wind	[REDACTED]	02/2016
Wind	[REDACTED] *	03/2016

### III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the  renewable electricity (electricity bundled with renewable attributes) /  renewable attributes only<sup>6</sup> (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 CO<sub>2</sub> 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;<sup>7</sup>
- 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.

<sup>5</sup> If using biomass fuels, list out the specific type (i.e. landfill gas, wood waste, etc.) and fill in section IV below.  
<sup>6</sup> 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.  
<sup>7</sup> 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,<sup>8</sup> 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

6/15/2016  
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.**

<sup>8</sup> 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:<sup>1</sup> SPP

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

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

Contact Person: Daniel Saldanha Title: Settlements Manager

Telephone: 713-356-2568 Email Address: daniel.saldanha@edpr.com

### II. Renewable electricity or RECs<sup>4</sup> 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:

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

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

<sup>3</sup> 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](http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc)

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



Fuel Type <sup>5</sup>	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind	* 2,600	04/2016
Wind	19,970	05/2016
Wind	20,430 *	06/2016

### III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the  renewable electricity (electricity bundled with renewable attributes) /  renewable attributes only<sup>6</sup> (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 CO<sub>2</sub> 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;<sup>7</sup>
- 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.

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

<sup>6</sup> 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.

<sup>7</sup> 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,<sup>8</sup> 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

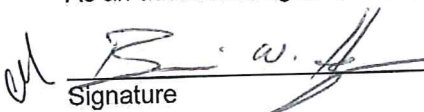
**IV. Additional statement required for and applicable to biomass facilities only**

- 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

7/6/2016  
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.**

<sup>8</sup> 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:<sup>1</sup> SPP

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

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

Contact Person: Daniel Saldanha Title: Settlements Manager

Telephone: 713-356-2568 Email Address: daniel.saldanha@edpr.com

### II. Renewable electricity or RECs<sup>4</sup> 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:

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

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

<sup>3</sup> 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](http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc)

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

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Fuel Type <sup>5</sup>	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind	* 17,334	07/2016
Wind	19,306	08/2016
Wind	27,642 *	09/2016

### III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the  renewable electricity (electricity bundled with renewable attributes) /  renewable attributes only<sup>6</sup> (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 CO<sub>2</sub> 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;<sup>7</sup>
- 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.

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

<sup>6</sup> 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.

<sup>7</sup> 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,<sup>8</sup> 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

10/11/2016  
\_\_\_\_\_  
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.**

<sup>8</sup> 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:<sup>1</sup> SPP

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

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

Contact Person: Daniel Saldanha Title: Settlements Manager

Telephone: 713-356-2568 Email Address: daniel.saldanha@edpr.com

### II. Renewable electricity or RECs<sup>4</sup> 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:

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

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

<sup>3</sup> 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](http://www.Green-e Energy.org/docs/Repowering_Defin_and_Instructions.doc)

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

Fuel Type <sup>5</sup>	# MWh RECs / Renewable Elec. Sold	Period of Generation (quarter/yy or mm/yy)
Wind	* 51,243	10/2016
Wind	28,703	11/2016
Wind	26,519 *	12/2016

### III. Declaration

I, Brian Hayes, Executive Vice President, Asset Operations, declare that the  renewable electricity (electricity bundled with renewable attributes) /  renewable attributes only<sup>6</sup> (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 CO<sub>2</sub> 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;<sup>7</sup>
- 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.

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

<sup>6</sup> 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.

<sup>7</sup> 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;<sup>8</sup> 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

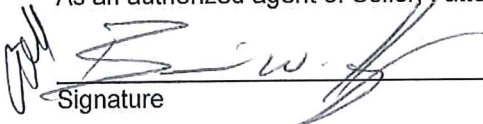
**IV. Additional statement required for and applicable to biomass facilities only**

- 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

1/17/2017  
 \_\_\_\_\_  
 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.**

<sup>8</sup> 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.



EMPIRE

2016 RES REPORT

ATTACHMENT 7

SOLAR CUSTOMER NET GENERATION

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

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OPERATIONAL DATE	END DATE OF REBATE	ZIP CODE	NARR AGG SUBACCOUNT	2016 ANNUAL SRECS	NARR SUBACCOUNT TOTAL
6/30/2015	6/30/2025	64836	AGG2321	22.50	
6/19/2015	6/19/2025	64801	AGG2321	12.90	
6/30/2015	6/30/2025	64850	AGG2321	12.90	
8/27/2015	8/27/2025	64850	AGG2321	6.70	
6/12/2015	6/12/2025	64836	AGG2321	32.59	
6/30/2015	6/30/2025	64850	AGG2321	35.55	
6/4/2015	6/4/2025	65785	AGG2321	9.00	
6/11/2015	6/11/2025	65781	AGG2321	15.20	
9/3/2015	9/3/2025	64804	AGG2321	7.27	
8/21/2015	8/21/2025	65646	AGG2321	9.15	
6/30/2015	6/30/2025	65785	AGG2321	20.40	
6/22/2015	6/22/2025	64804	AGG2321	5.20	
6/25/2015	6/25/2025	64836	AGG2321	13.60	
6/17/2015	6/17/2025	64836	AGG2321	10.20	
6/11/2015	6/11/2025	64870	AGG2321	14.30	
12/23/2015	12/23/2025	65616	AGG2321	32.51	
12/22/2015	12/22/2025	65616	AGG2321	29.93	
6/26/2015	6/26/2025	64755	AGG2321	7.60	
7/24/2015	7/24/2025	65785	AGG2321	20.90	
6/22/2015	6/22/2025	64804	AGG2321	14.10	
7/20/2015	7/20/2025	65785	AGG2321	12.36	
8/20/2015	8/20/2025	64836	AGG2321	12.10	
8/25/2015	8/25/2025	64804	AGG2321	33.24	
6/15/2015	6/15/2025	64804	AGG2321	19.20	
6/19/2015	6/19/2025	64836	AGG2321	14.10	
11/23/2015	11/23/2025	65616	AGG2321	34.14	
6/24/2015	6/24/2025	64850	AGG2321	9.40	
11/30/2015	11/30/2025	65616	AGG2321	32.93	
8/20/2015	8/20/2025	65605	AGG2321	17.80	
6/26/2015	6/26/2025	64836	AGG2321	10.20	
6/30/2015	6/30/2025	64836	AGG2321	16.40	
12/23/2015	12/23/2025	65616	AGG2321	35.48	
8/10/2015	8/10/2025	65757	AGG2321	19.43	
7/14/2015	7/14/2025	64801	AGG2321	8.60	
6/29/2015	6/29/2025	64801	AGG2321	17.80	
8/21/2015	12/18/2025	65646	AGG2321	12.20	
10/20/2015	6/1/2026	64804	AGG2321	7.69	
6/26/2015	6/17/2026	64834	AGG2321	11.60	
6/23/2015	5/18/2026	64850	AGG2321	10.10	
8/20/2015	2/22/2026	65723	AGG2321	22.20	
12/23/2015	7/28/2026	65616	AGG2321	35.50	
6/26/2015	12/29/2025	64804	AGG2321	17.20	
6/26/2015	3/29/2026	64804	AGG2321	19.40	
10/5/2015	6/27/2026	65721	AGG2321	34.00	

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6/12/2015	10/5/2025	64804 AGG2321	13.24	
8/11/2015	10/22/2025	64801 AGG2321	11.70	
6/26/2015	3/31/2026	64859 AGG2321	10.64	
6/18/2015	8/11/2026	65653 AGG2321	12.30	
9/22/2015	9/28/2026	65616 AGG2321	22.24	
6/9/2015	5/17/2026	65738 AGG2321	6.30	
6/16/2015	2/25/2026	64801 AGG2321	8.50	
6/26/2015	#REF!	64804 AGG2321	15.30	
6/30/2015	7/29/2026	65737 AGG2321	20.60	
6/9/2015	8/8/2026	65613 AGG2321	11.10	
6/2/2015	5/11/2026	65672 AGG2321	14.90	
6/30/2015	2/12/2026	65723 AGG2321	25.28	
8/25/2015	4/21/2026	65616 AGG2321	33.15	
7/6/2015	12/22/2025	64850 AGG2321	35.58	
6/23/2015	1/29/2026	64801 AGG2321	10.60	
6/22/2015	7/6/2026	65613 AGG2321	19.90	
6/26/2015	2/19/2026	65613 AGG2321	17.60	
6/18/2015	7/29/2026	65616 AGG2321	17.70	
6/26/2015	6/24/2026	64834 AGG2321	12.80	
7/30/2015	11/17/2026	64801 AGG2321	8.60	
6/25/2015	2/5/2026	64870 AGG2321	9.80	
6/29/2015	12/18/2025	65785 AGG2321	35.20	
6/29/2015	1/8/2026	65785 AGG2321	35.20	
6/5/2015	4/26/2026	64801 AGG2321	4.30	
7/16/2015	4/7/2026	64801 AGG2321	6.20	
6/24/2015	12/3/2025	64870 AGG2321	10.40	
6/26/2015	1/28/2026	65707 AGG2321	15.10	
9/22/2015	11/25/2025	65616 AGG2321	34.89	1274.69
11/9/2015	11/9/2025	65616 AGG2322	18.51	
12/18/2015	12/18/2025	65648 AGG2322	12.58	
10/29/2015	10/29/2025	65781 AGG2322	6.61	
10/22/2015	10/22/2025	65640 AGG2322	23.40	
9/25/2015	9/25/2025	65672 AGG2322	7.52	
11/18/2015	11/18/2025	64834 AGG2322	13.50	
11/24/2015	11/24/2025	64801 AGG2322	12.90	
12/1/2015	12/1/2025	64804 AGG2322	29.02	
12/2/2015	12/2/2025	64865 AGG2322	20.18	
11/18/2015	11/18/2025	65738 AGG2322	15.82	
11/20/2015	11/20/2025	65721 AGG2322	8.31	
5/27/2015	5/27/2025	64804 AGG2322	34.95	
11/3/2015	11/3/2025	65721 AGG2322	14.66	
9/9/2015	9/9/2025	64836 AGG2322	23.80	
10/22/2015	10/22/2025	65653 AGG2322	15.80	
10/12/2015	10/12/2025	64801 AGG2322	18.03	
8/26/2015	8/26/2025	65781 AGG2322	12.79	
7/30/2015	7/30/2025	64836 AGG2322	17.20	
11/25/2015	11/25/2025	65613 AGG2322	21.00	

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11/6/2015	11/6/2025	64804 AGG2322	6.40
10/26/2015	10/26/2025	65723 AGG2322	17.33
10/23/2015	10/23/2025	64850 AGG2322	9.22
9/18/2015	9/18/2025	64804 AGG2322	14.20
10/30/2015	10/30/2025	65705 AGG2322	11.43
12/22/2015	12/22/2025	65616 AGG2322	15.02
10/21/2015	10/21/2025	64804 AGG2322	8.87
11/6/2015	11/6/2025	64734 AGG2322	23.50
12/7/2015	12/7/2025	65785 AGG2322	22.10
9/14/2015	9/14/2025	64836 AGG2322	21.20
11/10/2015	11/10/2025	64804 AGG2322	11.80
11/24/2015	11/24/2025	65616 AGG2322	8.03
10/29/2015	10/29/2025	65663 AGG2322	8.12
11/10/2015	11/10/2025	64870 AGG2322	15.10
10/27/2015	10/27/2025	65721 AGG2322	14.58
11/25/2015	11/25/2025	65610 AGG2322	14.63
11/25/2015	11/25/2025	65613 AGG2322	14.30
11/12/2015	11/12/2025	64836 AGG2322	13.90
11/25/2015	11/25/2025	65738 AGG2322	6.21
9/15/2015	9/15/2025	65653 AGG2322	2.90
11/6/2015	11/6/2025	65653 AGG2322	16.04
10/23/2015	10/23/2025	64836 AGG2322	18.90
9/30/2015	9/30/2025	64755 AGG2322	18.90
9/30/2015	9/30/2025	64850 AGG2322	16.49
9/9/2015	9/9/2025	65804 AGG2322	7.52
12/18/2015	10/13/2026	65753 AGG2322	14.88
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10/1/2015	7/28/2026	64844 AGG2322	12.10
11/13/2015	2/9/2026	65737 AGG2322	14.36
9/9/2015	12/23/2025	65781 AGG2322	8.94
10/7/2015	9/9/2025	64804 AGG2322	13.46
9/25/2015	8/25/2026	65788 AGG2322	6.37
10/19/2015	3/31/2026	64834 AGG2322	20.50
10/22/2015	6/1/2026	64859 AGG2322	9.53
11/18/2015	3/31/2026	65616 AGG2322	17.99
9/18/2015	11/29/2026	65738 AGG2322	14.60
11/16/2015	12/11/2025	65672 AGG2322	17.63
11/4/2015	5/16/2026	65708 AGG2322	8.90
9/4/2015	6/30/2026	64836 AGG2322	10.60
9/21/2015	10/26/2026	65622 AGG2322	20.80
9/18/2015	7/8/2026	64801 AGG2322	15.20
9/30/2015	5/11/2026	65757 AGG2322	19.95
12/2/2015	1/6/2026	65721 AGG2322	6.80
11/12/2015	6/2/2025	65721 AGG2322	10.45
11/19/2015	11/12/2025	65606 AGG2322	9.62
8/31/2015	4/20/2026	65738 AGG2322	10.90
11/12/2015	12/2/2026	64854 AGG2322	13.48

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9/30/2015	1/5/2026	65721 AGG2322	11.58	
9/16/2015	9/30/2025	65721 AGG2322	10.50	
11/13/2015	3/10/2026	65616 AGG2322	6.55	
10/21/2015	11/17/2026	65672 AGG2322	17.70	
11/18/2015	11/13/2025	65605 AGG2322	7.25	
10/7/2015	8/2/2026	65738 AGG2322	14.67	
12/10/2015	6/13/2026	65616 AGG2322	31.36	
12/9/2015	9/27/2026	65653 AGG2322	20.60	
11/30/2015	6/22/2025	65781 AGG2322	17.06	
11/6/2015	6/26/2025	65721 AGG2322	19.70	
12/15/2015	11/30/2025	65723 AGG2322	30.15	
8/26/2015	3/7/2026	65781 AGG2322	17.59	
11/19/2015	8/26/2025	65781 AGG2322	6.95	
11/5/2015	7/6/2026	64804 AGG2322	10.79	
12/18/2015	6/25/2025	65721 AGG2322	11.70	
12/11/2015	6/5/2025	64801 AGG2322	30.50	
9/3/2015	9/19/2026	64834 AGG2322	20.50	
10/23/2015	10/25/2026	64870 AGG2322	14.10	1246.39
11/30/2015	11/30/2025	65604 AGG2323	9.81	
10/27/2015	10/27/2025	65721 AGG2323	24.10	
12/22/2015	12/22/2025	64870 AGG2323	26.10	
11/13/2015	11/13/2025	65613 AGG2323	16.10	
11/18/2015	11/18/2025	65708 AGG2323	23.57	
12/18/2015	12/18/2025	64873 AGG2323	13.80	
12/18/2015	12/18/2025	65648 AGG2323	11.87	
11/6/2015	11/6/2025	64801 AGG2323	6.33	
12/22/2015	12/22/2025	65738 AGG2323	6.74	
11/6/2015	11/6/2025	65653 AGG2323	5.31	
11/23/2015	11/23/2025	65605 AGG2323	16.21	
11/25/2015	11/25/2025	65613 AGG2323	24.40	
11/16/2015	11/16/2025	65653 AGG2323	6.21	
12/23/2015	12/23/2025	65622 AGG2323	35.95	
11/25/2015	11/25/2025	65738 AGG2323	5.54	
12/8/2015	12/8/2025	65708 AGG2323	12.94	
11/30/2015	11/30/2025	65781 AGG2323	14.51	
12/18/2015	12/18/2025	65672 AGG2323	16.35	
11/23/2015	11/23/2025	64804 AGG2323	6.40	
11/10/2015	11/10/2025	64801 AGG2323	8.30	
12/22/2015	12/22/2025	64836 AGG2323	16.40	
12/9/2015	12/9/2025	64870 AGG2323	20.20	
10/13/2015	10/13/2025	64834 AGG2323	9.80	
12/17/2015	12/17/2025	65721 AGG2323	13.71	
12/22/2015	12/22/2025	65738 AGG2323	12.48	
12/16/2015	12/16/2025	65705 AGG2323	11.30	
9/29/2015	9/29/2025	64804 AGG2323	6.86	
12/7/2015	12/7/2025	64870 AGG2323	12.10	
12/10/2015	12/10/2025	64850 AGG2323	24.08	

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11/30/2015	11/30/2025	65604 AGG2323	16.72	
12/3/2015	12/3/2025	64804 AGG2323	8.63	
11/6/2015	3/16/2026	65672 AGG2323	5.42	
12/18/2015	6/17/2026	65612 AGG2323	14.49	
12/4/2015	10/20/2025	64804 AGG2323	9.87	
12/18/2015	5/3/2026	65616 AGG2323	5.78	
12/29/2015	6/24/2026	64801 AGG2323	35.88	
12/17/2015	8/20/2025	65721 AGG2323	7.69	
12/29/2015	1/8/2026	64840 AGG2323	23.99	
12/21/2015	6/26/2025	64870 AGG2323	16.90	
11/20/2015	12/30/2026	65721 AGG2323	16.04	
12/17/2015	6/26/2025	64855 AGG2323	31.63	
11/30/2015	5/2/2026	65781 AGG2323	24.15	
12/14/2015	8/8/2026	65781 AGG2323	7.93	
12/17/2015	1/28/2026	65622 AGG2323	16.80	
12/7/2015	4/19/2026	64870 AGG2323	10.80	
12/11/2015	12/7/2025	64850 AGG2323	25.80	
12/17/2015	4/21/2026	64804 AGG2323	12.25	
10/27/2015	5/19/2026	64844 AGG2323	16.90	
12/3/2015	2/8/2026	64804 AGG2323	11.50	
11/18/2015	8/3/2026	65616 AGG2323	16.89	
10/2/2015	5/27/2026	65622 AGG2323	13.00	
11/20/2015	11/2/2026	65721 AGG2323	15.86	
12/15/2015	4/7/2026	64755 AGG2323	10.90	
12/23/2015	6/28/2026	65616 AGG2323	5.62	
12/18/2015	12/23/2025	65610 AGG2323	6.90	
11/25/2015	12/18/2025	65613 AGG2323	16.10	
12/9/2015	4/21/2026	64804 AGG2323	12.10	
12/22/2015	5/13/2026	64836 AGG2323	11.20	
12/22/2015	5/17/2026	65785 AGG2323	19.80	
10/20/2015	8/24/2026	64836 AGG2323	7.40	
12/11/2015	7/11/2026	65770 AGG2323	35.35	
10/1/2015	3/24/2026	65785 AGG2323	20.00	
12/3/2015	6/29/2025	64804 AGG2323	12.27	
11/25/2015	4/5/2026	65650 AGG2323	20.70	
12/17/2015	3/17/2026	64804 AGG2323	13.75	
12/29/2015	4/12/2026	64804 AGG2323	6.28	
10/12/2015	#REF!	65707 AGG2323	14.30	
11/4/2015	4/13/2026	65707 AGG2323	35.26	
10/12/2015	12/29/2025	65707 AGG2323	29.10	
10/12/2015	6/30/2026	65707 AGG2323	19.40	
10/12/2015	6/14/2026	65707 AGG2323	6.47	
10/12/2015	10/12/2025	65707 AGG2323	11.30	
11/4/2015	11/4/2025	65707 AGG2323	35.23	
11/18/2015	10/12/2025	65769 AGG2323	18.00	1149.81
2/1/2016	2/1/2026	64970 AGG2372	11.50	
1/14/2016	1/14/2026	64865 AGG2372	17.50	

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1/2/2016	1/2/2026	65721 AGG2372	7.03
1/7/2016	1/7/2026	65721 AGG2372	14.95
2/1/2016	2/1/2026	65781 AGG2372	7.25
2/1/2016	2/1/2026	64870 AGG2372	11.10
1/13/2016	1/13/2026	64755 AGG2372	15.20
1/6/2016	1/6/2026	64850 AGG2372	14.99
1/29/2016	1/29/2026	65767 AGG2372	10.93
1/14/2016	1/14/2026	64870 AGG2372	25.40
1/6/2016	1/6/2026	65738 AGG2372	13.01
1/29/2016	1/29/2026	65767 AGG2372	10.70
1/21/2016	1/21/2026	65616 AGG2372	12.57
1/6/2016	1/6/2026	64850 AGG2372	35.72
1/6/2016	1/6/2026	64850 AGG2372	15.41
1/5/2016	1/5/2026	64801 AGG2372	13.40
1/20/2016	1/20/2026	65781 AGG2372	33.81
1/14/2016	1/14/2026	64804 AGG2372	33.28
1/27/2016	1/27/2026	65714 AGG2372	16.20
1/13/2016	1/13/2026	64804 AGG2372	11.40
1/8/2016	1/8/2026	65708 AGG2372	19.10
1/18/2016	1/18/2026	64801 AGG2372	35.16
1/21/2016	1/21/2026	65616 AGG2372	10.11
1/18/2016	1/18/2026	65612 AGG2372	23.45
1/18/2016	1/18/2026	65738 AGG2372	12.82
1/27/2016	1/27/2026	64850 AGG2372	19.35
1/11/2016	1/11/2026	65707 AGG2372	21.40
1/20/2016	1/20/2026	65721 AGG2372	13.07
1/5/2016	1/5/2026	64870 AGG2372	15.50
1/12/2016	1/12/2026	65622 AGG2372	8.50
1/8/2016	1/8/2026	64804 AGG2372	16.98
1/26/2016	1/26/2026	65708 AGG2372	17.90
1/28/2016	1/28/2026	64804 AGG2372	10.03
1/25/2016	1/25/2026	64801 AGG2372	10.97
1/14/2016	1/14/2026	64801 AGG2372	35.46
1/25/2016	1/25/2026	64862 AGG2372	21.99
1/8/2016	1/8/2026	64804 AGG2372	16.11
1/15/2016	6/14/2026	64801 AGG2372	35.16
1/29/2016	4/20/2026	64834 AGG2372	16.20
1/21/2016	11/8/2026	65616 AGG2372	3.54
1/22/2016	11/13/2025	65836 AGG2372	30.20
1/7/2016	10/7/2025	64862 AGG2372	16.61
1/8/2016	1/7/2026	65631 AGG2372	9.20
1/22/2016	9/25/2025	64843 AGG2372	17.30
1/26/2016	7/19/2026	65738 AGG2372	10.73
1/15/2016	10/28/2026	65721 AGG2372	9.93
1/12/2016	1/15/2026	64834 AGG2372	18.20
1/25/2016	1/12/2026	65781 AGG2372	9.90
1/5/2016	6/18/2025	65653 AGG2372	4.61

1/12/2016	1/5/2026	64870 AGG2372	19.70	
1/28/2016	4/12/2026	64801 AGG2372	31.00	
1/19/2016	5/20/2026	64862 AGG2372	33.88	
1/6/2016	6/29/2026	64801 AGG2372	33.57	
1/12/2016	2/26/2026	64834 AGG2372	13.60	
1/22/2016	12/9/2026	65757 AGG2372	12.10	
1/19/2016	8/5/2026	65649 AGG2372	17.10	
1/6/2016	5/27/2026	64850 AGG2372	24.73	
1/6/2016	6/30/2025	65738 AGG2372	12.39	
1/14/2016	11/17/2026	64804 AGG2372	33.27	
1/5/2016	1/14/2026	65616 AGG2372	23.32	
1/28/2016	12/14/2026	64804 AGG2372	7.46	
1/6/2016	5/13/2026	65781 AGG2372	12.24	
1/5/2016	12/9/2025	64840 AGG2372	22.40	
1/29/2016	11/18/2025	65663 AGG2372	35.09	
1/25/2016	4/25/2026	64862 AGG2372	14.51	
1/29/2016	3/23/2026	65613 AGG2372	31.13	
1/6/2016	8/18/2026	65653 AGG2372	17.65	
1/8/2016	3/22/2026	65616 AGG2372	30.21	
1/28/2016	12/11/2025	64804 AGG2372	8.64	
1/12/2016	7/5/2026	65781 AGG2372	8.60	
1/7/2016	10/12/2025	65616 AGG2372	15.38	1278.80
2/16/2016	2/16/2026	64870 AGG2375	12.94	
2/25/2016	2/25/2026	64850 AGG2375	18.87	
2/16/2016	2/16/2026	65770 AGG2375	13.04	
3/1/2016	3/1/2026	65738 AGG2375	7.54	
2/12/2016	2/12/2026	64804 AGG2375	6.95	
3/1/2016	3/1/2026	65781 AGG2375	12.13	
2/23/2016	2/23/2026	64834 AGG2375	11.33	
2/5/2016	2/5/2026	65648 AGG2375	11.91	
2/18/2016	2/18/2026	65757 AGG2375	16.43	
2/24/2016	2/24/2026	64804 AGG2375	13.39	
2/25/2016	2/25/2026	64804 AGG2375	24.94	
2/17/2016	2/17/2026	64850 AGG2375	16.31	
2/26/2016	2/26/2026	65721 AGG2375	17.73	
2/26/2016	2/26/2026	64870 AGG2375	13.34	
2/19/2016	2/19/2026	65622 AGG2375	32.40	
2/3/2016	2/3/2026	65738 AGG2375	10.23	
3/2/2016	3/2/2026	64801 AGG2375	11.59	
2/5/2016	2/5/2026	64836 AGG2375	26.23	
2/15/2016	2/15/2026	65604 AGG2375	11.45	
2/24/2016	2/24/2026	64836 AGG2375	29.38	
2/24/2016	2/24/2026	64836 AGG2375	23.39	
2/24/2016	2/24/2026	64836 AGG2375	29.38	
2/24/2016	2/24/2026	64836 AGG2375	31.82	
3/7/2016	3/7/2026	64801 AGG2375	20.32	
2/17/2016	2/17/2026	64836 AGG2375	21.87	

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2/3/2016	2/3/2026	65649 AGG2375	18.09
3/2/2016	3/2/2026	64836 AGG2375	5.12
2/10/2016	2/10/2026	64850 AGG2375	23.69
3/1/2016	3/1/2026	64870 AGG2375	23.80
2/5/2016	2/5/2026	64804 AGG2375	9.68
2/25/2016	2/25/2026	65707 AGG2375	11.08
2/12/2016	2/12/2026	64804 AGG2375	6.41
2/2/2016	2/2/2026	65738 AGG2375	14.67
2/26/2016	2/26/2026	65781 AGG2375	23.75
2/9/2016	6/20/2026	65708 AGG2375	14.44
2/5/2016	6/26/2025	65721 AGG2375	6.79
2/22/2016	6/23/2025	64834 AGG2375	13.33
2/17/2016	8/11/2025	64855 AGG2375	12.36
2/5/2016	2/17/2026	64804 AGG2375	12.19
2/19/2016	11/17/2026	64804 AGG2375	27.23
3/1/2016	6/30/2026	65679 AGG2375	5.48
3/2/2016	7/19/2026	64804 AGG2375	13.55
3/1/2016	3/2/2026	65781 AGG2375	13.32
3/4/2016	1/19/2026	65738 AGG2375	5.84
2/12/2016	9/22/2025	65616 AGG2375	14.83
2/26/2016	7/26/2026	65757 AGG2375	9.52
2/19/2016	10/27/2025	64870 AGG2375	16.54
2/17/2016	3/14/2026	64844 AGG2375	17.55
2/26/2016	5/11/2026	65672 AGG2375	9.70
2/26/2016	7/21/2026	65613 AGG2375	13.60
2/8/2016	6/15/2026	65616 AGG2375	19.38
2/5/2016	8/10/2026	64804 AGG2375	25.32
2/24/2016	3/22/2026	65721 AGG2375	12.83
2/3/2016	6/15/2026	65661 AGG2375	26.24
2/12/2016	9/18/2025	64804 AGG2375	11.58
2/18/2016	2/12/2026	65721 AGG2375	7.69
2/10/2016	4/29/2026	65613 AGG2375	18.04
2/25/2016	7/6/2026	65616 AGG2375	14.45
2/18/2016	6/9/2025	65721 AGG2375	8.37
2/19/2016	6/28/2026	64870 AGG2375	14.01
2/24/2016	6/28/2026	64801 AGG2375	21.61
2/16/2016	2/19/2026	64801 AGG2375	15.53
2/12/2016	8/31/2025	64804 AGG2375	28.28
3/7/2016	12/15/2025	64850 AGG2375	18.29
2/19/2016	12/10/2025	65785 AGG2375	13.97
3/4/2016	4/28/2026	65672 AGG2375	19.20
2/19/2016	7/6/2026	65613 AGG2375	18.77
3/2/2016	6/17/2026	65714 AGG2375	11.36
3/7/2016	11/6/2025	65769 AGG2375	10.34
3/1/2016	12/1/2026	65617 AGG2375	9.01
2/5/2016	11/10/2026	65721 AGG2375	23.54
3/7/2016	4/1/2026	64850 AGG2375	12.87

2/4/2016	4/28/2026	64870	AGG2375	9.74	
2/26/2016	10/12/2025	65679	AGG2375	11.13	
2/3/2016	11/18/2025	64836	AGG2375	20.08	1189.08
4/5/2016	4/5/2026	65672	AGG2376	9.18	
3/31/2016	3/31/2026	64865	AGG2376	8.10	
3/18/2016	3/18/2026	65653	AGG2376	6.08	
3/29/2016	3/29/2026	65721	AGG2376	9.15	
4/8/2016	4/8/2026	65616	AGG2376	23.92	
4/6/2016	4/6/2026	65781	AGG2376	20.37	
3/24/2016	3/24/2026	65725	AGG2376	10.07	
3/16/2016	3/16/2026	65616	AGG2376	10.33	
3/14/2016	3/14/2026	65738	AGG2376	6.88	
4/6/2016	4/6/2026	65604	AGG2376	6.40	
4/1/2016	4/1/2026	64836	AGG2376	6.90	
3/16/2016	3/16/2026	64850	AGG2376	5.12	
3/17/2016	3/17/2026	64850	AGG2376	7.23	
3/23/2016	3/23/2026	65785	AGG2376	13.51	
3/9/2016	3/9/2026	64804	AGG2376	5.88	
3/14/2016	3/14/2026	64836	AGG2376	18.80	
3/21/2016	3/21/2026	65613	AGG2376	17.08	
3/10/2016	3/10/2026	64804	AGG2376	24.00	
3/8/2016	3/8/2026	65633	AGG2376	12.84	
3/9/2016	3/9/2026	64804	AGG2376	9.01	
3/31/2016	3/31/2026	64858	AGG2376	12.38	
3/16/2016	3/16/2026	64844	AGG2376	11.86	
3/10/2016	3/10/2026	64804	AGG2376	13.60	
4/5/2016	4/5/2026	65672	AGG2376	7.32	
3/16/2016	3/16/2026	64844	AGG2376	11.54	
3/29/2016	3/29/2026	65721	AGG2376	6.70	
4/4/2016	4/4/2026	65738	AGG2376	8.32	
4/5/2016	4/5/2026	64844	AGG2376	15.49	
3/29/2016	3/29/2026	65631	AGG2376	5.97	
3/29/2016	3/29/2026	65721	AGG2376	9.97	
3/16/2016	3/16/2026	64804	AGG2376	16.36	
3/8/2016	3/8/2026	65613	AGG2376	28.50	
3/16/2016	3/16/2026	65616	AGG2376	19.65	
4/7/2016	4/7/2026	65721	AGG2376	7.79	
3/17/2016	3/17/2026	64866	AGG2376	16.35	
4/5/2016	4/5/2026	64840	AGG2376	19.93	
3/16/2016	8/21/2025	65781	AGG2376	10.10	
4/8/2016	4/14/2026	65653	AGG2376	9.06	
3/10/2016	12/17/2025	64804	AGG2376	11.98	
3/16/2016	1/22/2026	65613	AGG2376	11.30	
3/31/2016	9/6/2026	64804	AGG2376	28.36	
3/29/2016	5/4/2026	65721	AGG2376	5.72	
4/7/2016	11/20/2025	65622	AGG2376	16.75	
3/31/2016	3/1/2026	64833	AGG2376	11.03	

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3/31/2016	11/18/2025	65785 AGG2376	5.57	
3/18/2016	1/25/2026	65785 AGG2376	5.19	
3/30/2016	9/18/2025	64870 AGG2376	15.30	
3/8/2016	5/26/2026	64801 AGG2376	14.59	
3/14/2016	4/27/2026	64804 AGG2376	17.87	
3/11/2016	4/14/2026	65870 AGG2376	14.79	
3/22/2016	2/26/2026	65705 AGG2376	25.38	
4/6/2016	7/6/2026	64801 AGG2376	8.84	
3/22/2016	12/22/2026	64801 AGG2376	13.15	
4/5/2016	11/18/2025	64804 AGG2376	8.58	
4/11/2016	4/5/2026	65605 AGG2376	8.82	
4/7/2016	2/18/2026	64801 AGG2376	7.60	
3/17/2016	4/19/2026	65613 AGG2376	14.73	
3/30/2016	5/9/2026	64804 AGG2376	22.48	
3/23/2016	11/19/2025	65721 AGG2376	11.78	
4/4/2016	2/16/2026	65738 AGG2376	9.47	
4/7/2016	6/30/2025	65685 AGG2376	16.51	
3/23/2016	8/24/2026	64850 AGG2376	8.75	
3/10/2016	6/22/2026	64804 AGG2376	13.33	
3/18/2016	4/27/2026	65616 AGG2376	26.46	
3/23/2016	1/25/2026	64804 AGG2376	11.03	
3/10/2016	6/17/2026	64804 AGG2376	8.09	
3/24/2016	3/10/2026	65648 AGG2376	14.73	
4/1/2016	10/1/2025	64801 AGG2376	21.99	
3/22/2016	7/30/2025	65721 AGG2376	11.98	
4/7/2016	5/3/2026	64870 AGG2376	9.72	
3/22/2016	7/16/2025	64804 AGG2376	10.03	
4/5/2016	6/24/2025	64804 AGG2376	10.84	
3/31/2016	3/22/2026	64859 AGG2376	15.58	
3/17/2016	3/31/2026	65613 AGG2376	14.34	
3/14/2016	10/12/2025	64804 AGG2376	27.16	
4/12/2016	11/4/2025	64801 AGG2376	6.84	978.39
4/15/2016	4/15/2026	64804 AGG2377	26.92	
4/22/2016	4/22/2026	64804 AGG2377	8.26	
4/15/2016	4/15/2026	64802 AGG2377	24.57	
4/14/2016	4/14/2026	64836 AGG2377	22.73	
4/20/2016	4/20/2026	65783 AGG2377	11.51	
4/26/2016	4/26/2026	64804 AGG2377	5.28	
4/15/2016	4/15/2026	64804 AGG2377	10.34	
4/14/2016	4/14/2026	65648 AGG2377	14.71	
4/15/2016	4/15/2026	64804 AGG2377	9.32	
4/22/2016	4/22/2026	64801 AGG2377	10.43	
4/19/2016	4/19/2026	64850 AGG2377	12.77	
4/19/2016	4/19/2026	64836 AGG2377	27.20	
4/19/2016	4/19/2026	65613 AGG2377	6.33	
4/20/2016	4/20/2026	64841 AGG2377	14.01	
4/26/2016	4/26/2026	65781 AGG2377	5.87	

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4/21/2016	4/21/2026	64804 AGG2377	22.25
4/22/2016	4/22/2026	64855 AGG2377	17.37
4/14/2016	4/14/2026	65738 AGG2377	7.66
4/19/2016	4/19/2026	65613 AGG2377	10.62
4/13/2016	4/13/2026	65605 AGG2377	26.44
4/13/2016	4/13/2026	64804 AGG2377	11.87
4/15/2016	4/15/2026	64802 AGG2377	24.57
4/15/2016	4/15/2026	64802 AGG2377	24.65
4/21/2016	4/21/2026	65721 AGG2377	5.37
4/13/2016	4/13/2026	64801 AGG2377	15.86
4/20/2016	4/20/2026	65738 AGG2377	20.40
4/13/2016	4/13/2026	65738 AGG2377	25.44
4/27/2016	4/27/2026	64844 AGG2377	15.80
4/13/2016	1/15/2026	64804 AGG2377	9.90
4/20/2016	12/18/2025	64801 AGG2377	7.94
4/15/2016	6/28/2026	65781 AGG2377	17.48
4/14/2016	12/29/2025	65672 AGG2377	13.14
4/14/2016	3/10/2026	64801 AGG2377	26.52
4/14/2016	3/18/2026	65653 AGG2377	12.10
4/12/2016	9/21/2026	65721 AGG2377	5.95
4/19/2016	3/30/2026	65613 AGG2377	23.06
4/19/2016	4/19/2026	65613 AGG2377	18.13
4/19/2016	4/19/2026	65613 AGG2377	22.84
4/19/2016	4/19/2026	65613 AGG2377	24.19
4/21/2016	11/16/2025	65753 AGG2377	23.56
4/21/2016	1/6/2026	64108 AGG2377	23.62
4/25/2016	9/30/2026	64804 AGG2377	5.58
4/27/2016	6/9/2025	65721 AGG2377	8.67
4/14/2016	5/3/2026	65770 AGG2377	7.35
4/19/2016	1/6/2026	64844 AGG2377	10.48
4/13/2016	5/11/2026	64801 AGG2377	10.69
4/27/2016	6/14/2026	64850 AGG2377	17.60
4/14/2016	3/23/2026	65721 AGG2377	9.81
4/20/2016	4/14/2026	65738 AGG2377	7.03
4/21/2016	3/23/2026	64804 AGG2377	9.33
4/27/2016	1/6/2026	64858 AGG2377	14.14
4/26/2016	11/25/2025	65781 AGG2377	9.84
4/21/2016	6/22/2026	65721 AGG2377	16.11
4/26/2016	12/22/2026	64836 AGG2377	18.63
4/27/2016	6/7/2026	64850 AGG2377	14.68
4/25/2016	4/28/2026	65672 AGG2377	6.39
4/21/2016	1/29/2026	64841 AGG2377	20.85
4/20/2016	7/13/2026	65738 AGG2377	10.50
4/26/2016	2/4/2026	64804 AGG2377	10.41
4/12/2016	9/22/2025	65613 AGG2377	24.93
4/13/2016	12/17/2025	64801 AGG2377	11.15
4/25/2016	1/7/2026	65605 AGG2377	22.34

933.49

NP

5/9/2016	5/9/2026	65752 AGG2378	10.15
4/28/2016	4/28/2026	65850 AGG2378	18.30
5/3/2016	5/3/2026	64836 AGG2378	7.77
5/18/2016	5/18/2026	64870 AGG2378	10.24
5/19/2016	5/19/2026	64804 AGG2378	21.69
5/3/2016	5/3/2026	65785 AGG2378	25.42
5/9/2016	5/9/2026	65661 AGG2378	14.42
5/20/2016	5/20/2026	65603 AGG2378	14.74
5/9/2016	5/9/2026	64850 AGG2378	25.15
5/18/2016	5/18/2026	64804 AGG2378	11.60
5/4/2016	5/4/2026	64850 AGG2378	9.66
5/11/2016	5/11/2026	64870 AGG2378	24.92
5/2/2016	5/2/2026	64865 AGG2378	15.62
5/13/2016	5/13/2026	65616 AGG2378	7.52
5/9/2016	5/9/2026	65661 AGG2378	7.70
5/3/2016	5/3/2026	65785 AGG2378	8.66
5/17/2016	5/17/2026	65721 AGG2378	5.93
4/28/2016	4/28/2026	65604 AGG2378	10.73
5/3/2016	5/3/2026	64870 AGG2378	11.37
5/4/2016	5/4/2026	64804 AGG2378	11.41
5/16/2016	5/16/2026	65679 AGG2378	10.79
5/18/2016	5/18/2026	64836 AGG2378	23.83
5/23/2016	5/23/2026	65785 AGG2378	21.31
5/23/2016	5/23/2026	65785 AGG2378	7.13
5/2/2016	5/2/2026	65604 AGG2378	9.36
5/4/2016	5/4/2026	65685 AGG2378	12.12
5/20/2016	5/20/2026	64804 AGG2378	4.37
5/17/2016	5/17/2026	64870 AGG2378	6.47
5/19/2016	9/28/2026	64850 AGG2378	3.80
5/3/2016	5/19/2026	65785 AGG2378	14.42
5/18/2016	2/5/2026	64804 AGG2378	10.26
5/4/2016	6/21/2026	64850 AGG2378	22.89
5/4/2016	5/4/2026	64850 AGG2378	22.89
5/2/2016	4/14/2026	64834 AGG2378	12.29
5/20/2016	12/17/2025	65682 AGG2378	20.31
5/16/2016	6/24/2026	65707 AGG2378	9.61
5/19/2016	11/4/2025	65721 AGG2378	13.54
5/17/2016	2/19/2026	65708 AGG2378	23.06
5/3/2016	2/17/2026	64804 AGG2378	9.93
5/11/2016	9/4/2025	65685 AGG2378	13.77
4/28/2016	2/3/2026	65604 AGG2378	7.94
5/11/2016	7/1/2026	65685 AGG2378	10.37
4/29/2016	4/7/2026	64801 AGG2378	6.83
4/28/2016	2/10/2026	64804 AGG2378	16.49
5/9/2016	11/20/2025	65661 AGG2378	11.13
5/11/2016	5/26/2026	65723 AGG2378	4.09
5/11/2016	3/30/2026	65723 AGG2378	2.84

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5/11/2016	7/28/2026	65721 AGG2378	6.73	
5/11/2016	12/2/2026	64804 AGG2378	7.45	
5/13/2016	6/28/2026	64866 AGG2378	8.35	
5/4/2016	6/28/2026	64850 AGG2378	18.45	
5/9/2016	5/4/2026	65738 AGG2378	4.69	
5/13/2016	4/26/2026	65738 AGG2378	14.68	
5/12/2016	8/25/2025	65723 AGG2378	12.08	
5/11/2016	7/28/2026	65616 AGG2378	15.29	
5/17/2016	6/23/2025	65613 AGG2378	20.41	
5/17/2016	6/29/2026	65613 AGG2378	17.04	
4/28/2016	12/22/2025	65616 AGG2378	23.29	
4/28/2016	12/16/2026	65616 AGG2378	23.01	
5/10/2016	12/9/2025	65721 AGG2378	24.51	
4/28/2016	9/2/2026	64804 AGG2378	15.37	
5/20/2016	3/7/2026	64804 AGG2378	6.57	
5/3/2016	5/20/2026	65605 AGG2378	24.25	
5/4/2016	4/12/2026	65622 AGG2378	24.01	871.01
5/23/2016	5/23/2026	65708 AGG2379	10.66	
6/7/2016	6/7/2026	65738 AGG2379	5.29	
6/8/2016	6/8/2026	65714 AGG2379	8.46	
6/3/2016	6/3/2026	64801 AGG2379	19.25	
6/7/2016	6/7/2026	65653 AGG2379	18.50	
6/16/2016	6/16/2026	64834 AGG2379	20.43	
6/16/2016	6/16/2026	64834 AGG2379	20.57	
6/16/2016	6/16/2026	64834 AGG2379	20.52	
6/16/2016	6/16/2026	64834 AGG2379	20.35	
6/14/2016	6/14/2026	65622 AGG2379	6.78	
6/2/2016	6/2/2026	65721 AGG2379	8.99	
6/9/2016	6/9/2026	64801 AGG2379	12.32	
5/26/2016	5/26/2026	65770 AGG2379	20.46	
6/1/2016	6/1/2026	65854 AGG2379	19.36	
6/16/2016	6/16/2026	64834 AGG2379	11.58	
6/8/2016	6/8/2026	65714 AGG2379	8.43	
6/10/2016	6/10/2026	65672 AGG2379	10.57	
6/7/2016	6/7/2026	65601 AGG2379	5.09	
5/25/2016	5/25/2026	65605 AGG2379	6.25	
5/26/2016	5/26/2026	64870 AGG2379	7.99	
5/31/2016	5/31/2026	65721 AGG2379	9.41	
6/14/2016	6/14/2026	65738 AGG2379	17.86	
6/14/2016	6/14/2026	65616 AGG2379	14.00	
6/8/2016	6/8/2026	65714 AGG2379	7.82	
5/23/2016	5/23/2026	65785 AGG2379	22.60	
5/25/2016	5/25/2026	64840 AGG2379	4.34	
6/13/2016	6/13/2026	65767 AGG2379	11.23	
6/15/2016	6/15/2026	64850 AGG2379	4.49	
6/10/2016	6/10/2026	64801 AGG2379	2.83	
6/15/2016	6/15/2026	64840 AGG2379	7.99	

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6/1/2016	12/18/2025	64850	AGG2379	5.65	
5/25/2016	12/4/2025	64801	AGG2379	8.93	
6/14/2016	11/7/2026	65738	AGG2379	8.86	
6/13/2016	4/8/2026	65757	AGG2379	1.72	
6/13/2016	6/13/2026	65757	AGG2379	3.21	
6/7/2016	10/19/2025	65731	AGG2379	10.81	
6/7/2016	8/9/2026	65622	AGG2379	17.44	
6/1/2016	6/7/2026	65721	AGG2379	3.46	
6/8/2016	3/1/2026	64801	AGG2379	4.42	
5/25/2016	6/23/2026	65601	AGG2379	3.56	
6/7/2016	2/12/2026	65613	AGG2379	7.27	
5/26/2016	6/20/2026	65781	AGG2379	20.15	
5/26/2016	7/13/2026	64801	AGG2379	20.16	
5/23/2016	1/12/2026	64804	AGG2379	23.02	
6/15/2016	1/22/2026	64832	AGG2379	8.87	
5/26/2016	2/24/2026	65648	AGG2379	5.73	
6/15/2016	5/26/2026	64850	AGG2379	4.65	
5/27/2016	8/24/2026	65616	AGG2379	19.55	
5/27/2016	6/16/2025	65653	AGG2379	19.76	
6/7/2016	3/17/2026	65613	AGG2379	6.36	
5/26/2016	6/7/2026	65610	AGG2379	4.95	
6/14/2016	2/18/2026	64804	AGG2379	5.27	
6/7/2016	5/9/2026	65601	AGG2379	4.36	
6/13/2016	10/7/2025	64804	AGG2379	10.62	
6/7/2016	9/20/2026	65738	AGG2379	10.60	
6/16/2016	6/28/2026	65604	AGG2379	2.40	
6/14/2016	10/23/2025	65616	AGG2379	17.17	623.37
6/17/2016	6/17/2026	64801	AGG2380	19.13	
6/22/2016	6/22/2026	65721	AGG2380	17.41	
6/21/2016	6/21/2026	64804	AGG2380	8.06	
6/23/2016	6/23/2026	65613	AGG2380	7.87	
6/16/2016	6/16/2026	64804	AGG2380	19.05	
6/20/2016	6/20/2026	64801	AGG2380	20.03	
6/20/2016	6/20/2026	64801	AGG2380	20.03	
6/20/2016	6/20/2026	64801	AGG2380	20.03	
6/22/2016	6/22/2026	65785	AGG2380	3.03	
6/22/2016	6/22/2026	65785	AGG2380	7.48	
6/24/2016	6/24/2026	64804	AGG2380	19.33	
6/20/2016	6/20/2026	64870	AGG2380	15.62	
6/22/2016	6/22/2026	64801	AGG2380	18.51	
6/24/2016	6/24/2026	64801	AGG2380	19.00	
6/24/2016	6/24/2026	65705	AGG2380	11.56	
6/24/2016	6/24/2026	64804	AGG2380	4.57	
6/21/2016	6/21/2026	65757	AGG2380	6.35	
6/21/2016	6/21/2026	65757	AGG2380	1.59	
6/17/2016	6/17/2026	65738	AGG2380	3.52	
6/20/2016	6/20/2026	65721	AGG2380	1.00	

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6/27/2016	6/27/2026	64801 AGG2380	3.73	
6/21/2016	6/21/2026	64801 AGG2380	9.56	
6/21/2016	6/21/2026	65785 AGG2380	18.04	
6/20/2016	6/20/2026	65721 AGG2380	3.34	
6/17/2016	11/6/2025	64804 AGG2380	7.94	
6/24/2016	10/1/2025	65605 AGG2380	11.18	
6/20/2016	6/13/2026	65738 AGG2380	8.98	
6/17/2016	1/22/2026	64804 AGG2380	19.29	
6/21/2016	6/7/2026	65781 AGG2380	18.23	
6/27/2016	1/26/2026	65723 AGG2380	18.11	
6/27/2016	6/27/2026	65723 AGG2380	18.55	
6/27/2016	6/27/2026	65723 AGG2380	18.20	
6/27/2016	6/27/2026	65723 AGG2380	3.78	
6/27/2016	8/22/2026	65723 AGG2380	16.05	
6/20/2016	7/1/2026	65721 AGG2380	14.51	
6/23/2016	3/4/2026	65613 AGG2380	18.08	
6/23/2016	6/23/2026	65613 AGG2380	18.59	
6/20/2016	4/21/2026	65721 AGG2380	17.45	
6/24/2016	5/23/2026	64804 AGG2380	11.55	
6/20/2016	12/14/2026	65738 AGG2380	8.36	
6/22/2016	4/27/2026	65661 AGG2380	12.32	
6/22/2016	6/7/2026	65661 AGG2380	16.61	
6/17/2016	5/10/2026	65605 AGG2380	19.08	
6/24/2016	3/1/2026	65622 AGG2380	18.63	
6/17/2016	11/19/2025	65616 AGG2380	19.47	592.79
6/30/2016	6/30/2026	64801 AGG2381	17.68	
7/6/2016	7/6/2026	64801 AGG2381	4.60	
6/28/2016	6/28/2026	65613 AGG2381	9.90	
6/30/2016	6/30/2026	65779 AGG2381	11.82	
6/28/2016	6/28/2026	65672 AGG2381	16.31	
6/29/2016	6/29/2026	64865 AGG2381	17.95	
6/27/2016	6/27/2026	64804 AGG2381	13.31	
7/8/2016	7/8/2026	65672 AGG2381	5.79	
6/28/2016	6/28/2026	64834 AGG2381	16.11	
6/30/2016	6/30/2026	65721 AGG2381	11.86	
7/11/2016	7/11/2026	64859 AGG2381	7.53	
6/29/2016	6/29/2026	64850 AGG2381	4.46	
7/6/2016	7/6/2026	65617 AGG2381	7.07	
7/8/2016	7/8/2026	65679 AGG2381	2.48	
6/29/2016	6/29/2026	65661 AGG2381	17.67	
6/29/2016	6/29/2026	65661 AGG2381	17.67	
6/29/2016	6/29/2026	65661 AGG2381	17.67	
6/29/2016	6/29/2026	65661 AGG2381	17.10	
7/6/2016	7/6/2026	65672 AGG2381	9.29	
6/28/2016	6/28/2026	65605 AGG2381	13.39	
6/30/2016	6/30/2026	64804 AGG2381	7.49	
7/7/2016	7/7/2026	64855 AGG2381	8.31	

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6/28/2016	9/14/2026	64801 AGG2381	18.97	
7/1/2016	2/19/2026	65653 AGG2381	4.91	
6/30/2016	6/20/2026	65613 AGG2381	10.93	
6/29/2016	3/8/2026	64850 AGG2381	18.64	
6/30/2016	3/11/2026	64804 AGG2381	17.32	
7/6/2016	2/5/2026	64801 AGG2381	5.39	
7/1/2016	4/28/2026	65679 AGG2381	8.19	
7/8/2016	4/11/2026	65610 AGG2381	6.34	
7/6/2016	4/28/2026	65672 AGG2381	17.83	
7/6/2016	7/6/2026	65672 AGG2381	5.07	
6/28/2016	5/11/2026	65616 AGG2381	4.13	
6/28/2016	4/27/2026	65616 AGG2381	18.04	
6/28/2016	6/20/2026	64801 AGG2381	12.99	
6/28/2016	1/28/2026	64801 AGG2381	16.39	
6/28/2016	9/16/2025	64801 AGG2381	17.89	
6/29/2016	4/26/2026	64836 AGG2381	5.55	
7/6/2016	3/18/2026	65616 AGG2381	11.20	
7/6/2016	3/4/2026	65616 AGG2381	7.25	
6/28/2016	1/6/2026	64804 AGG2381	6.38	
7/6/2016	4/20/2026	65613 AGG2381	9.88	
6/28/2016	6/29/2025	64801 AGG2381	17.33	
7/5/2016	9/3/2025	65738 AGG2381	7.80	
6/30/2016	7/28/2026	64836 AGG2381	10.25	514.10
9/14/2016	9/14/2026	64834 AGG2475	2.57	
7/14/2016	7/14/2026	64870 AGG2475	9.28	
8/8/2016	8/8/2026	65785 AGG2475	5.29	
7/11/2016	7/11/2026	65605 AGG2475	9.62	
9/21/2016	9/21/2026	64843 AGG2475	1.29	
9/13/2016	9/13/2026	65616 AGG2475	3.60	
9/14/2016	9/14/2026	64870 AGG2475	2.47	
7/28/2016	7/28/2026	65721 AGG2475	4.74	
7/27/2016	7/27/2026	64836 AGG2475	6.09	
9/30/2016	9/30/2026	64804 AGG2475	3.63	
9/7/2016	9/7/2026	64844 AGG2475	3.98	
7/28/2016	7/28/2026	65753 AGG2475	6.68	
9/16/2016	9/16/2026	64855 AGG2475	5.49	
9/28/2016	9/28/2026	65738 AGG2475	5.93	
9/21/2016	9/21/2026	64804 AGG2475	2.64	
8/16/2016	8/16/2026	65601 AGG2475	5.75	
7/21/2016	7/21/2026	64759 AGG2475	4.57	
8/4/2016	8/4/2026	64801 AGG2475	3.93	
9/1/2016	9/1/2026	65738 AGG2475	2.23	
8/16/2016	8/16/2026	65738 AGG2475	2.09	
7/21/2016	7/21/2026	65661 AGG2475	14.97	
7/28/2016	7/28/2026	65613 AGG2475	5.38	
7/19/2016	7/19/2026	65604 AGG2475	3.87	
7/28/2016	7/28/2026	65648 AGG2475	6.14	

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8/18/2016	8/18/2026	64801 AGG2475	4.91
9/16/2016	9/16/2026	65714 AGG2475	4.16
7/27/2016	7/27/2026	64844 AGG2475	4.66
9/1/2016	9/1/2026	65705 AGG2475	1.24
9/14/2016	9/14/2026	64870 AGG2475	2.21
8/9/2016	8/9/2026	65610 AGG2475	6.57
8/9/2016	8/9/2026	65610 AGG2475	4.22
8/30/2016	8/30/2026	65721 AGG2475	2.64
9/2/2016	9/2/2026	65707 AGG2475	3.87
9/14/2016	9/14/2026	64804 AGG2475	4.47
9/28/2016	4/13/2026	65781 AGG2475	1.48
9/28/2016	9/28/2026	64804 AGG2475	2.32
9/14/2016	1/21/2026	65721 AGG2475	2.22
7/28/2016	4/15/2026	65753 AGG2475	4.31
7/15/2016	4/14/2026	64804 AGG2475	3.31
7/28/2016	7/15/2026	65785 AGG2475	3.13
8/25/2016	12/21/2025	64834 AGG2475	3.19
9/6/2016	12/9/2026	64831 AGG2475	3.62
7/19/2016	6/26/2025	65781 AGG2475	3.19
8/22/2016	6/27/2026	65723 AGG2475	10.63
8/9/2016	4/7/2026	65738 AGG2475	2.45
9/13/2016	12/17/2025	65721 AGG2475	1.83
7/19/2016	9/13/2026	64870 AGG2475	5.33
8/8/2016	11/30/2025	65781 AGG2475	2.66
8/11/2016	12/14/2025	64804 AGG2475	2.29
9/21/2016	1/12/2026	64804 AGG2475	1.89
9/28/2016	5/25/2026	65601 AGG2475	2.25
7/13/2016	5/26/2026	64870 AGG2475	14.36
7/26/2016	4/25/2026	64804 AGG2475	5.28
9/16/2016	2/26/2026	65721 AGG2475	7.66
7/21/2016	9/21/2025	65613 AGG2475	5.91
8/10/2016	12/3/2025	65679 AGG2475	3.90
8/9/2016	5/11/2026	65774 AGG2475	5.18
8/5/2016	8/9/2026	65721 AGG2475	3.44
8/3/2016	1/19/2026	65721 AGG2475	2.97
8/24/2016	#REF!	65707 AGG2475	5.40
7/29/2016	4/13/2026	64804 AGG2475	2.96
7/28/2016	9/30/2025	65661 AGG2475	6.58
8/8/2016	6/26/2025	65785 AGG2475	2.50
8/24/2016	3/7/2026	65785 AGG2475	2.66
8/2/2016	7/6/2025	65605 AGG2475	4.40
7/28/2016	5/12/2026	65661 AGG2475	3.76
9/20/2016	5/11/2026	64801 AGG2475	2.62
9/27/2016	2/19/2026	65679 AGG2475	7.52
8/24/2016	3/2/2026	65622 AGG2475	7.91
8/18/2016	4/21/2026	64834 AGG2475	3.71
7/29/2016	10/20/2025	65616 AGG2475	3.57

7/13/2016	6/18/2025	65723 AGG2475	5.68	
7/11/2016	6/26/2025	64801 AGG2475	7.79	
9/20/2016	10/26/2026	64801 AGG2475	2.35	
9/2/2016	11/5/2025	65785 AGG2475	4.83	
9/19/2016	6/28/2026	64801 AGG2475	2.34	
7/28/2016	1/12/2026	65723 AGG2475	5.13	347.71
11/10/2016	11/10/2026	64801 AGG2476	0.81	
11/22/2016	11/22/2026	65710 AGG2476	0.85	
12/21/2016	12/21/2026	64804 AGG2476	0.25	
11/9/2016	11/9/2026	64862 AGG2476	0.84	
11/8/2016	11/8/2026	65616 AGG2476	3.15	
10/7/2016	10/7/2026	64801 AGG2476	6.53	
10/11/2016	10/11/2026	64834 AGG2476	3.09	
10/31/2016	10/31/2026	65617 AGG2476	1.69	
11/16/2016	11/16/2026	64836 AGG2476	1.28	
11/21/2016	11/21/2026	64804 AGG2476	0.55	
12/22/2016	12/22/2026	65738 AGG2476	0.19	
10/14/2016	10/14/2026	65646 AGG2476	3.49	
11/21/2016	11/21/2026	64801 AGG2476	0.83	
12/1/2016	12/1/2026	65738 AGG2476	0.54	
12/20/2016	12/20/2026	64870 AGG2476	0.34	
11/21/2016	11/21/2026	64804 AGG2476	1.06	
12/21/2016	12/21/2026	64804 AGG2476	0.23	
11/22/2016	11/22/2026	65714 AGG2476	2.65	
11/22/2016	11/22/2026	65656 AGG2476	0.88	
10/25/2016	10/25/2026	65721 AGG2476	1.55	
10/26/2016	10/26/2026	65738 AGG2476	1.67	
10/13/2016	10/13/2026	65721 AGG2476	1.21	
12/12/2016	12/12/2026	64840 AGG2476	0.16	
12/1/2016	12/1/2026	64804 AGG2476	0.49	
10/18/2016	10/18/2026	65770 AGG2476	2.37	
11/10/2016	11/10/2026	65738 AGG2476	2.12	
10/4/2016	10/4/2026	65672 AGG2476	1.92	
10/25/2016	10/25/2026	64841 AGG2476	0.60	
11/10/2016	11/10/2026	64804 AGG2476	0.89	
12/2/2016	12/2/2026	64804 AGG2476	1.00	
10/19/2016	10/19/2026	64859 AGG2476	2.13	
12/20/2016	12/20/2026	65721 AGG2476	0.18	
10/25/2016	10/25/2026	64804 AGG2476	0.56	
12/16/2016	12/16/2026	65622 AGG2476	0.94	
12/30/2016	12/30/2026	64804 AGG2476	0.04	
10/25/2016	10/25/2026	64804 AGG2476	0.82	
10/13/2016	10/13/2026	65721 AGG2476	1.22	
12/2/2016	12/2/2026	64841 AGG2476	0.76	
12/20/2016	12/20/2026	65721 AGG2476	0.16	
12/28/2016	12/28/2026	64834 AGG2476	0.06	
10/13/2016	10/13/2026	65721 AGG2476	1.74	

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10/3/2016	10/3/2026	64850	AGG2476	0.62	
11/22/2016	11/22/2026	65753	AGG2476	1.01	
10/13/2016	#REF!	65721	AGG2476	1.30	
11/7/2016	8/3/2025	64801	AGG2476	3.78	
11/8/2016	1/29/2026	65616	AGG2476	3.33	
12/9/2016	3/16/2026	65712	AGG2476	0.69	
12/30/2016	6/12/2025	64854	AGG2476	0.02	
11/22/2016	2/5/2026	65701	AGG2476	0.69	
11/17/2016	11/22/2026	65738	AGG2476	0.94	
10/28/2016	6/8/2026	64844	AGG2476	1.67	
11/29/2016	6/7/2026	65672	AGG2476	0.69	
9/30/2016	12/17/2025	64804	AGG2476	2.81	
10/26/2016	9/16/2026	65738	AGG2476	0.65	
12/9/2016	3/22/2026	64801	AGG2476	1.49	
12/22/2016	4/6/2026	65738	AGG2476	0.11	
11/2/2016	10/2/2025	65613	AGG2476	1.32	
12/2/2016	12/2/2025	65613	AGG2476	1.83	
10/13/2016	2/24/2026	65721	AGG2476	3.33	
11/17/2016	10/13/2026	65648	AGG2476	0.47	
12/2/2016	4/4/2026	64801	AGG2476	0.59	
12/14/2016	#REF!	65616	AGG2476	1.16	
12/14/2016	11/12/2025	65616	AGG2476	0.99	
11/17/2016	1/5/2026	65648	AGG2476	0.52	
12/22/2016	10/21/2025	65781	AGG2476	0.32	
12/16/2016	5/17/2026	65613	AGG2476	0.87	
12/1/2016	12/15/2025	65738	AGG2476	0.55	
10/26/2016	6/16/2026	65738	AGG2476	1.43	
11/10/2016	12/11/2025	65721	AGG2476	1.34	
11/17/2016	9/20/2026	65738	AGG2476	0.98	
10/25/2016	6/26/2025	64804	AGG2476	1.40	
12/16/2016	3/14/2026	65613	AGG2476	1.04	
11/7/2016	2/26/2026	64804	AGG2476	2.47	92.24

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](http://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.

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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](http://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](http://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](http://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.

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**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](http://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 <sup>st</sup> of the Year	Operation Status Achieved on or before June 30 <sup>th</sup> 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:

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**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](http://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

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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.

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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.

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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**

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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 of ten (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.)**

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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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EMPIRE

2016 RES REPORT

ATTACHMENT 8

AFFIDAVIT OF COMPLIANCE

HIGHLY CONFIDENTIAL

PROPRIETARY

**ATTACHMENT 8:**  
**AFFIDAVIT OF COMPLIANCE WITH 2016 COMPLIANCE PLAN**

STATE OF MISSOURI )  
                                  )SS  
COUNTY OF JASPER )

On April 15, 2016, The Empire District Electric Company filed a Compliance Plan outlining our plan to comply with the Renewable Energy Standard for the years of 2016-2019.

In accordance with that document, EDE stated that the company would utilize the non-solar generation from contracts with Elk River Windfarm, Cloud County Windfarm, and generation from the Ozark Beach Hydroelectric facility owned by EDE. EDE retired 185,565 vintage 2015 and 2016 RECs from the Ozark Beach facility and the Elk River Windfarm in order to meet the 2016 non-solar compliance requirements.

EDE retired 3,261 customer-generated SRECs for compliance with the solar requirement.

The 2017 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 2016 annual Missouri RES are as follows:


Resource	Cost
Ozark Beach Generation	-0-
Solar Customer Generation Rebates	\$8,034,812
NAR Administration	\$50,900
Elk River PPA, Compliance Portion * [REDACTED] *	

On the 3<sup>rd</sup> day of April, 2017, before me appeared Blake A. Mertens, to me personally known, who, being by me first duly sworn, states that he is Vice President -Energy Supply 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



JANET L. HUNLEY  
My Commission Expires  
September 20, 2019  
Jasper County  
Commission #15243846



EMPIRE

2016 RES REPORT

ATTACHMENT 9

~~\*\*\* RETAIL RATE IMPACT CALCULATION \*\*\*~~

~~\*\*\* THESE ATTACHMENTS ARE CONSIDERED HIGHLY CONFIDENTIAL \*\*\*~~

~~\*\*\* RES Retail Rate Impact (Word) \*\*\*~~

Base RES Modeling\_2017 Annual Update (Excel)

HIGHLY CONFIDENTIAL

NON-PROPRIETARY



## Empire District Electric 2016 RES Filing

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 in order to maintain a minimum capacity margin of 12%.

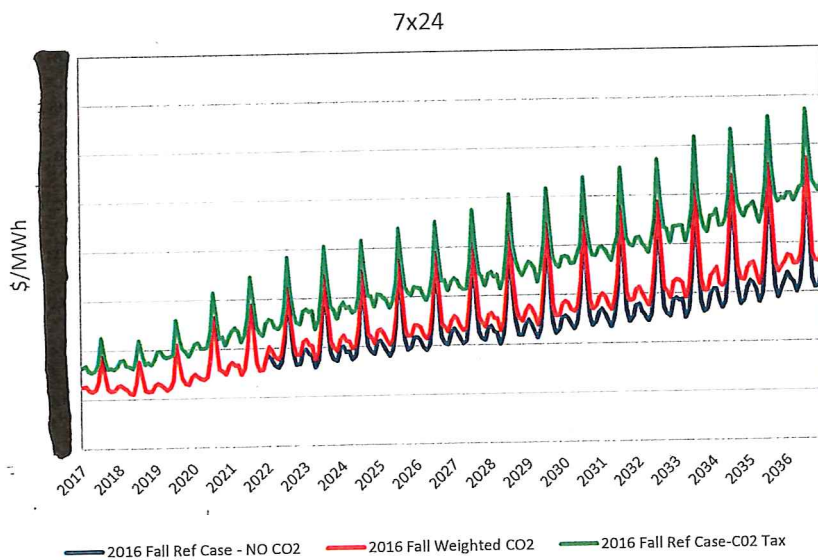
Rule 5 (B) 2 states that the RES-compliant portfolio shall be determined by adding to the utility's existing generation and purchased power resource portfolio an amount of least cost renewable resources sufficient to achieve the portfolio requirements set forth in section (2) of this rule and an amount 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 and is performing the calculations based on total company and not the Missouri jurisdiction 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. 2016 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. 2016 budgeted solar rebates paid were also updated for actuals and updated for the 2017 solar rebate budget.

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, gas prices and market prices were updated using ABB's 2016 Fall Midwest Power Reference Case. A 75% weighting was given to the no-carbon tax scenario and 25% 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 2016 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 2022.

Table 1 Expected Value Carbon Tax

Year	75% No Carbon	25% Fall 2016 Ref Case	Expected Value
2022	-		
2023	-		
2024	-		
2025	-		
2026	-		
2027	-		
2028	-		
2029	-		
2030	-		
2031			
2032			
2033			
2034			
2035			
2036			

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

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total
Actual Spend - 2017-2026											
Budget - 2017-2026											
Revenue Requirements 2017-2026											
Budget % of Revenue Requirements	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Actual % of Revenue Requirements	2.1%	2.2%	1.7%	1.0%	0.5%	-0.3%	-0.5%	-0.9%	-1.4%	-4.2%	0.0%

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

Table 3 2017-2026 RRI Calculation Period

2017-2026 RRI Calculation Period	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
Baseline Revenue Req (MM\$)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	6.111	6.941	4.241	-0.200	-3.576	-8.604	-10.229	-13.166	-17.108	-39.307	9.346
Plus Prior Carryover	2.344										
Cumulative carryover - over/(under)	8.455	15.396	19.637	19.438	15.862	7.258	-2.972	-16.138	-33.246	-72.553	

Table 4 2018-2027 RRI Calculation Period

2018-2027 RRI Calculation Period	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Cumulative
Baseline Revenue Req (MM\$)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	6.941	4.241	-0.200	-3.576	-8.604	-10.229	-13.166	-17.108	-39.307	-39.631	
Plus Prior Carryover	8.455										
Cumulative carryover - over/(under)	15.396	19.637	19.438	15.862	7.258	-2.972	-16.138	-33.246	-72.553	-112.184	

Table 5 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)	4.241	-0.200	-3.576	-8.604	-10.229	-13.166	-17.108	-39.307	-39.631	-38.367	
Plus Prior Carryover	15.396										
Cumulative carryover - over/(under)	19.637	19.438	15.862	7.258	-2.972	-16.138	-33.246	-72.553	-112.184	-150.551	

Table 6 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)	-0.200	-3.576	-8.604	-10.229	-13.166	-17.108	-39.307	-39.631	-38.367	-29.098	
Plus Prior Carryover	19.637										
Cumulative carryover - over/(under)	19.438	15.862	7.258	-2.972	-16.138	-33.246	-72.553	-112.184	-150.551	-179.648	

Table 7 2021-2030 RRI Calculation Period

2021-2030 RRI Calculation Period	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Cumulative
Baseline Revenue Req (MM\$)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)											
Plus Prior Carryover											
Cumulative carryover - over/(under)											

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2021-2030 RRI Calculation Period	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Cumulative
Baseline Revenue Req (MMS)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	-3.576	-8.604	-10.229	-13.166	-17.108	-39.307	-39.631	-38.367	-29.098	-31.993	
Plus Prior Carryover	19.438										
Cumulative carryover - over/(under)	15.862	7.258	-2.972	-16.138	-33.246	-72.553	-112.184	-150.551	-179.648	-211.642	

Table 8 2022-2031 RRI Calculation Period

2022-2031 RRI Calculation Period	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Cumulative
Baseline Revenue Req (MMS)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	-8.604	-10.229	-13.166	-17.108	-39.307	-39.631	-38.367	-29.098	-31.993	-51.504	
Plus Prior Carryover	15.862										
Cumulative carryover - over/(under)	7.258	-2.972	-16.138	-33.246	-72.553	-112.184	-150.551	-179.648	-211.642	-263.146	

Table 9 2023-2032 RRI Calculation Period

2023-2032 RRI Calculation Period	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Cumulative
Baseline Revenue Req (MMS)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	-10.229	-13.166	-17.108	-39.307	-39.631	-38.367	-29.098	-31.993	-51.504	-54.269	

Table 10 2024-2033 RRI Calculation Period

2024-2033 RRI Calculation Period	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Cumulative
Baseline Revenue Req (MMS)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	-13.166	-17.108	-39.307	-39.631	-38.367	-29.098	-31.993	-51.504	-54.269	-57.323	
Plus Prior Carryover	-2.972										
Cumulative carryover - over/(under)	-16.138	-33.246	-72.553	-112.184	-150.551	-179.648	-211.642	-263.146	-317.414	-374.738	

Table 11 2025-2034 RRI Calculation Period

2025-2034 RRI Calculation Period	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Cumulative
Baseline Revenue Req (MMS)											
Annual 1% (MM\$)											
Actual Costs											
Annual Over/(Under)	-17.108	-39.307	-39.631	-38.367	-29.098	-31.993	-51.504	-54.269	-57.323	-61.421	
Plus Prior Carryover	-16.138										
Cumulative carryover - over/(under)	-33.246	-72.553	-112.184	-150.551	-179.648	-211.642	-263.146	-317.414	-374.738	-436.159	

Table 12 2026-2035 RRI Calculation Period

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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)	-39,307	-39,631	-38,367	-29,098	-31,993	-51,504	-54,269	-57,323	-61,421	-62,415	
Plus Prior Carryover	-33,246										
Cumulative carryover - over/(under)	-72,553	-112,184	-150,551	-179,648	-211,642	-263,146	-317,414	-374,738	-436,159	-498,574	

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Attachment 9

Base RES Modeling\_2017 Annual Update (Excel)

Please see attached excel file: