



SERVICES YOU COUNT ON

---

April 8, 2016

Missouri Public Service Commission

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

This version of the Annual Compliance Plan 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 PLAN**

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

**Submitted April 15, 2016**



## Table of Contents

INTRODUCTION .....	3
SECTION (8) (B) 1 A: PLANNED RES COMPLIANCE .....	4
SECTION (8) (B) 1 B: LIST OF EXECUTED CONTRACTS .....	6
SECTION (8) (B) 1 C: PROJECTED TOTAL RETAIL SALES.....	7
SECTION (8) (B) 1 D: COMPARISON TO PREFERRED RESOURCE PLAN .....	7
SECTION (8) (B) 1 E: RES COMPLIANCE PLAN COST .....	8
SECTION (8) (B) 1 F: RES RETAIL RATE IMPACT .....	8
SECTION (8) (B) 1 G: COMPLIANCE WITH AIR, WATER, OR LAND USE REQUIREMENTS.....	9

ATTACHMENT 1: WIND GENERATION ALLOCATION FOR MO RETAIL CUSTOMERS

ATTACHMENT 2: GENERATION FROM PPA WIND RESOURCES

ATTACHMENT 3: REC REPORT

ATTACHMENT 4: 2015 CUSTOMER GENERATED SRECS

ATTACHMENT 5: RETAIL RATE CALCULATIONS

# 2016 ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE PLAN

## 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 Plan. The rule became effective in September 2010, and pursuant to the rule EDE must file the RES Compliance Plan on or before April 15, 2016 for the current year and subsequent two calendar years.

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) to purchase all of the energy generated at the 150-megawatt (MW) 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 Windfarm, LLC. EDP Renewables North America LLC is an indirect parent company of Cloud County Windfarm, LLC. Pursuant to the terms of the agreement, EDE purchases all of the output from the 105 MW Phase 1 Meridian Way Windfarm located in Cloud County, Kansas.

In addition, the Ozark Beach Hydroelectric Project, owned by EDE has produced renewable hydropower for many years. Through purchased power agreements or owned generation, EDE's wind and hydro renewable energy resources have provided adequate renewable energy to comply with the RES in the past and for the future.

There is a separate component, the "solar" RES that requires compliance which can only be met with Solar Renewable Energy Credits (SRECs) or energy from solar generation resources. EDE will meet the solar RES compliance obligation through customer-generated or purchased SRECs. 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.

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

## **SECTION (8) (B) 1 A: PLANNED RES COMPLIANCE**

### Non-solar Compliance

4 CSR 240-20 provides the procedure by which utilities must meet statutory obligations for renewable energy. Missouri law required that by 2011, electric companies must either generate, purchase energy, or purchase renewable energy credits (RECs) equal to at least 2 percent of the electricity they sell to retail customers from renewable sources. That percentage increases to 10 percent by 2018 and 15 percent by 2021. The regulation also requires the utilization of a commission designated third-party registry for REC accounting, and the North American Renewable Registry (NARR) is utilized for tracking EDE retirements for Missouri compliance.

This year and in the subsequent two years, EDE plans to comply with the non-solar portion of the RES through contracts with Elk River Windfarm, LLC and/or generation from its Ozark Beach Hydroelectric facility. In fact, EDE currently could meet the 2021 requirement through its renewable energy purchase power agreements and owned generation if it chose not to sell any RECs generated from these facilities.

EDE owns the Ozark Beach Hydroelectric Project (Ozark Beach) which generates approximately 54,000 megawatt-hours (MWh) each year. Since the facility is located in Missouri, EDE is allowed to claim the amount of MWhs generated plus an additional twenty-five hundredths (0.25) credits, as authorized by subsection (3)(G) of this rule. Consequently, Ozark Beach generation counts as one and twenty-five hundredths (1.25) RECs for purposes of compliance with this rule as allowed by 4 CSR 240-20.100 (3) (G).

The table below represents EDE's expected Missouri retail sales and the non-solar percentage requirements of Missouri retail electric sales that must be achieved by EDE either through the purchase of RECs or the production of energy, and the total expected potential of qualifying RECs that could be used for compliance. EDE expects to sell all or a portion of its remaining RECs after all current or future state and/or federal mandates have been met.

Table 1: Projected Non Solar Compliance

Time Period	RES Requirement Percent	Mo Retail Sales (MWh)	Non Solar Resources				Total Non-Solar Requirement	Total RES Requirement <sup>3</sup>
			Elk River <sup>1</sup>	Meridian Way <sup>1</sup>	Ozark Beach <sup>1</sup>	Total Potential <sup>2</sup>		
2016	5%	4,121,192	550,000	330,000	67,500	947,500	201,939	206,060
2017	5%	4,148,146	550,000	330,000	67,500	947,500	203,259	207,407
2018	10%	4,158,735	550,000	330,000	67,500	947,500	407,556	415,874

<sup>1</sup>Expected average operation; Ozark Beach number includes additional 0.25 credit

<sup>2</sup>Total expected eligible RECs not including potential 3<sup>rd</sup> party sales or other RES requirements.

<sup>3</sup> Both Non solar and Solar will make up the total RES requirement

### Solar Compliance

EDE filed a tariff to establish solar rebate payment procedures and to revise its net metering tariffs to accommodate the payment of solar rebates which became effective on May 16, 2015. Under the terms of the tariff, EDE will buy SRECs from its electric customers who installed or are installing net metered solar facilities at their homes and/or businesses according to the solar rebate tariff and net metering requirements.

For 2016 compliance, EDE expects to obtain SRECs transferred from qualified customer-generator's operational solar electric systems as a condition of receiving the solar rebate. SRECs produced from these solar electric systems will be transferred to EDE for a period of 10 years. Generation from these customer-owned facilities would be eligible for

NP

application of the 1.25 factor as these facilities are located in Missouri. The balance of EDE's solar RES needs will come from procurement of SRECs through a third party broker.

In the future, (2016-2018) Empire will use customer-generated SRECs, banked SRECs, or purchase SRECS as needed. EDE will also evaluate and monitor the feasibility and economics of constructing and operating utility scale solar generation.

Table 2: Projected Solar Compliance

Time Period	RES Requirement Solar %	MO Retail Sales (MWh)	Solar RES Requirement	Customer Generated Solar <sup>1</sup>	Purchased SRECs
2016	0.1%	4,121,192	4,121	1,736	2,385
2017	0.1%	4,148,146	4,148	1,736	2,412
2018	0.2%	4,158,735	8,318	1,736	6,582

<sup>1</sup>Future Projections based on June – December 2015 production but EDE expects actual generation to be higher than what is listed above; Customer-generated number includes additional 0.25 credit.

## SECTION (8) (B) 1 B: LIST OF EXECUTED CONTRACTS

EDE's executed renewable energy contracts include a 20-year contract with Elk River Windfarm, LLC to purchase all of the energy generated at the 150 MW Elk River Windfarm located in Butler County, Kansas. In addition, EDE entered into a 20-year purchased power agreement with Cloud County Windfarm. Pursuant to the terms of that agreement, EDE will purchase all of the output from the 105 MW Phase 1 Meridian Way Wind Farm located in Cloud County, Kansas. Empire anticipates generation of approximately 550,000 MWhs for Elk River and approximately 330,000 MWhs for Meridian Way.

The effective date of the Elk River agreement was December 10, 2004 and the effective date of the Meridian Way agreement was on June 19, 2007. Unless otherwise terminated in accordance with contract stipulations each of those agreements will remain in full force for a term ending at midnight local time on the 20<sup>th</sup> anniversary of each facility's respective

completion date. ATTACHMENT 1 indicates the wind generation allocation for Missouri retail customers. Additional information on the wind energy purchases and sales can be found in ATTACHMENTS 2 & 3.

Through the end of 2015, Empire executed payment for 234 solar customer generated rebates. Empire purchased █████ SRECs through contract with a wholesale SREC provider on the open market for 2015 compliance. Empire expects to annually execute payment for customer generated rebates and purchase additional SRECs through wholesale markets. (See ATTACHMENT 4).

### SECTION (8) (B) 1 C: PROJECTED TOTAL RETAIL SALES

The following table represents EDE’s projected Missouri retail sales for each year of the Annual Compliance Plan period. These MWhs are the sales numbers that each non-solar and solar requirement is multiplied by in order to calculate EDE’s RES requirements.

Table 3: EDE Projected Retail Sales and RES Requirements

*Missouri Retail Sales	Year	Projected Retail Electric Sales (MWh)	Non-solar Requirement (MWh)	Solar Requirement (MWh)
Projected				
	2016	4,121,192	201,939	4,121
	2017	4,148,146	203,259	4,148
	2018	4,158,735	407,556	8,318

*\*Source: 2016-2020 Revenue Model, draft 5*

### SECTION (8) (B) 1 D: COMPARISON TO PREFERRED RESOURCE PLAN

EDE will fully meet the RES compliance requirements for 2016, 2017, and 2018 with its current purchased power contracts, hydroelectric facility, and customer-generated and/or purchased solar energy. Therefore, there is no difference between the RES Compliance Plan and the most recent Integrated Resource Plan (IRP) filed with the Commission in April of 2016. EDE continues to include a section in the IRP which discusses the impact potential or proposed

NP

changes to Renewable Energy Standards would have on EDE. Regardless of the outcome of proposed changes, in the future, EDE will continue to retain a sufficient amount of RECs and SRECs to meet any current or future RES.

## **SECTION (8) (B) 1 E: RES COMPLIANCE PLAN COST**

EDE currently meets the Missouri non-solar RES compliance requirements on a total percentage basis with hydro and wind resources for the plan period. Analysis of the IRP indicates the use of energy provided by EDE-owned hydro generation and long-term wind purchased power agreements is the least cost, most prudent methodology to achieve compliance with the RES.

To comply with the solar-specific compliance, the purchase of SRECs through an industry broker is currently the least expensive alternative. However, EDE expects to utilize SRECs transferred from qualified customer-generator's systems for a portion of the compliance obligation. The cost to purchase additional third party SRECs should be minimal.

## **SECTION (8) (B) 1 F: RES RETAIL RATE IMPACT**

The retail rate impact was calculated by comparing non-renewable generation portfolio to a RES-compliant portfolio with sufficient renewable resources to achieve the renewable standards. EDE has performed this rate impact calculation in accordance with Section (5) Retail Rate Impact. The calculations were completed consistent with EDE's understanding of Staff's interpretation of the RES rules. For each year of the 2016-2018 RES Compliance Plan period, the annual retail rate impact is limited to a maximum of 1% of the 10-year average non-RES compliant revenue requirement.

Costs associated with EDE's current or anticipated RES compliance are associated with (1) the registration of assets and RECs in the NARR, (2) costs associated with retirement of RECs, (3) the cost of purchasing small quantities of SRECs, and (4) costs associated with solar rebates. Some of the costs for 2015 compliance will occur in 2016. Non-solar costs incurred for

2015 compliance totaled \$46,206 for the registration, retirement and associated costs of REC management. The purchase price of the amount of wind energy necessary for 2015 compliance totaled [REDACTED]. This amount reflects an asset that is currently included in Empire's portfolio through a purchased power agreement and does not reflect an additional cost as it was contracted for prior to the commencement of the RES. This resource will be used in the future for compliance, as needed. Empire's base rates reflect a representative level of renewable registry costs. For the period of 2016 to 2018 current wind resources are adequate to meet compliance obligations and wind resource additions will not be required during this time.

Solar costs incurred for 2015 purchase of SRECs and solar rebates paid totaled \$3,105,505. EDE has requested to recover the solar cost in base rates in its current MO rate case ER-2016-0023.

The total compliance cost for 2015 was \$3,151,711. The purchase price of the existing wind energy which was not added for compliance totaled [REDACTED]. EDE will use the generation from our Ozark Beach hydro facility, energy from the windfarm purchased power agreements, solar energy from customer-generated facilities, and purchased solar energy as needed, but we do not expect to exceed the rate cap. ATTACHMENT 5 further explains the retail rate impact calculations. The calculations in ATTACHMENT 5 are based on total company not Missouri jurisdictional.

It is important to note the rate cap calculation is *purely* a mathematical exercise and has nothing to do with current rates, current generation assets or even current finalized environmental rules. For example, the "base case" which the 1% rate cap is calculated upon does not reflect Empire's actual generation portfolio as all renewable generation is to be taken out. Then, the "base case" also assumes a value for items such as carbon to which there is currently no finalized rule nor is there a liquid market that could be used as an estimate for carbon costs. The end result of this mathematical exercise over-inflates the costs for the "base case" and, in turn, shows a savings for the renewable case after a few years.

## **SECTION (8) (B) 1 G: COMPLIANCE WITH AIR, WATER, OR LAND USE REQUIREMENTS**

Pursuant to Section 393.1030.4 RSMo, any renewable energy facility located in the state of Missouri shall not cause undue adverse air, water or land use impacts.

All generating facilities utilized by EDE to meet the requirements of the Missouri RES have, to EDE's knowledge, received all necessary environmental and operational permits and are in compliance with any necessary federal, state and/or local requirements related to air, water and land use. All generating facilities have received Certification as a Renewable Energy Generation Facility by the Missouri Department of Economic Development.

EMPIRE

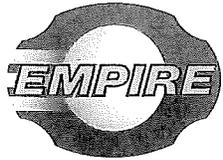
2016-2018 RES PLAN

ATTACHMENT 1

WIND GENERATION ALLOCATION

HIGHLY CONFIDENTIAL

NON-PROPRIETARY



SERVICES YOU COUNT ON

WIND GENERATION ALLOCATION FOR MO RETAIL CUSTOMERS 2015

Facility	Generation (MWh)	Percentage*	Energy Supplied to Missouri Retail Customers (MWh)
Elk River Windfarm	509,347	83.5807%	425,715.79
Meridian Way Windfarm	315,146	83.5807%	263,401.23

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

NP

EMPIRE

2016-2018 RES PLAN

ATTACHMENT 2

GENERATION FROM WIND RESOURCES

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: February 3, 2014  
Due Date: February 23, 2014

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 #: #0LRZ2  
Customer #: 900166

Description
-------------

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

Prior Month Prepayment Balance December-14	Delivered Generation:	[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency	Total	[REDACTED]
Grand Total Paid		\$ [REDACTED]

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

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

253 - 165500

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

SCHED 2-23-15  
DL

MP

RECVD  
3-10-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: March 2, 2015  
Due Date: March 23, 2015

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 #: #0LUL4  
Customer #: 900166

Description
-------------

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

Prior Month Prepayment Balance February-15	Delivered Generation:	[REDACTED]	[REDACTED]
Prepay Surplus/Deficiency			[REDACTED]
Current Month Prepayment	Prepay		[REDACTED]
Plus: Prepay Surplus or Deficiency			[REDACTED]
	Total		[REDACTED]

Grand Total Paid \$ [REDACTED]

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

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

253 - 165500

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

SCHED 3-23-15  
DL

NP

RECVD  
4-15-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## REVISED INVOICE

Invoice Date: April 6, 2015  
Due Date: April 27, 2015 **MT**

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 #: #0LXC8  
Customer #: 900166

### Description

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

Prior Month Prepayment Balance  
March-15  
Prepay Surplus/Deficiency

Delivered Generation:

Current Month Prepayment  
Plus: Prepay Surplus or Deficiency

Prepay

Total

Grand Total Paid

\$

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

JP Morgan Chase

Chicago, IL

ABA No. [REDACTED]

ACH ABA No. [REDACTED]

For Account of Aeolus Wind Power II LLC.

Account No. [REDACTED]

253 - 165500

Iberdrola Contact: christopher.evidente@iberdrolaren.com

Phone: 503-796-7116

Total Amount Due To Elk River Windfarm, LLC:

\$

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

NP

RECVD  
5-13-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## REVISED INVOICE

Invoice Date: May 4, 2015  
Due Date: May 25, 2015

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 #: #0M061  
Customer #: 900166

Description
-------------

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

Prior Month Prepayment Balance	Delivered Generation: [REDACTED] MWhs	[REDACTED]
March-15		[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency		[REDACTED]
	Total	[REDACTED]
Grand Total Paid		\$ [REDACTED]

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

SCHED 5-26-15  
DL

NP

recvd  
6-11-15  
acctg

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## REVISED INVOICE

Invoice Date: June 2, 2015  
Due Date: June 22, 2015

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 #: #0M351  
Customer #: 900166

Description
-------------

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

Prior Month Prepayment Balance	Delivered Generation: [REDACTED] MWhs	[REDACTED]
March-15		[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency		[REDACTED]
	Total	[REDACTED]
Grand Total Paid		\$ [REDACTED]

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

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

253 - 165500

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

sched 6-22-15  
dl

NP

RECVD  
7-15-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: July 7, 2015  
Due Date: July 27, 2015

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 #: #0M3S2  
Customer #: 900166

### Description

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

Prior Month Prepayment Balance June-15	Delivered Generation: [REDACTED] MWH,	[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency		[REDACTED]
	Total	[REDACTED]
Grand Total Paid		\$ [REDACTED]

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

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

253-165500

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

*Handwritten:*  
Paid ALTA  
7-24-15  
JPE

*Handwritten:* NP

recvd  
8-11-15  
acctg

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: August 4, 2015  
Due Date: August 24, 2015

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 #: #OM8EC  
Customer #: 900166

Description

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

Prior Month Prepayment Balance  
July-15

Delivered Generation: [REDACTED] MWH.

Prepay Surplus/Deficiency

Current Month Prepayment  
Plus: Prepay Surplus or Deficiency

Prepay

Total

Grand Total Paid

\$

253 - 165500

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

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:

\$

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

Rec'd by ME  
8-24-15  
JME

NP

RECVD  
9-14-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: September 2, 2015  
Due Date: September 22, 2015

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 #: #0MB13  
Customer #: 900166

**Description**

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

Prior Month Prepayment Balance August-15	Delivered Generation: [REDACTED] MWH	[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency	Total	[REDACTED]
<b>Grand Total Paid</b>		<b>\$ [REDACTED]</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

*Handwritten:*  
Receivables  
9.22.15  
DJK

*Handwritten:* NP

RECEIVED

**Elk River Windfarm, LLC**

An Oregon Limited Liability Company

OCT 12 2015

**INVOICE**

ACCOUNTING

Invoice Date: October 6, 2015  
Due Date: October 26, 2015

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

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

Invoice #: #24988  
Customer #: 900166

**Description**

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

Prere Month Prepayment Balance September-15	Delivered Generation: [REDACTED] MWH:	[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency	Total	[REDACTED]

Grand Total Paid \$ [REDACTED]

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

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

253-165500

Iberdrola Contact: christopher.evidente@iberdrola.com  
Phone: 803-796-7116

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

Rec'd back  
10-26-15  
JHE

NP

RECVD  
11-9-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: November 4, 2015  
Due Date: November 24, 2015

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 #: #26228  
Customer #: 900166

### Description

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

Prior Month Prepayment Balance  
September-15  
Prepay Surplus/Deficiency

Delivered Generation: [REDACTED] MWH.

Current Month Prepayment  
Plus: Prepay Surplus or Deficiency

Prepay

Total

Grand Total Paid

\$

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:

\$

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 11-24-15  
DL

NP

RECVD  
12-15-15  
ACCTG

# Elk River Windfarm, LLC

An Oregon Limited Liability Company

## INVOICE

Invoice Date: December 7, 2015  
Due Date: December 28, 2015

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 #: #26228  
Customer #: 900166

**Description**

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

Prior Month Prepayment Balance November-15	Delivered Generation: [REDACTED] MWH,	[REDACTED]
Prepay Surplus/Deficiency		[REDACTED]
Current Month Prepayment	Prepay	[REDACTED]
Plus: Prepay Surplus or Deficiency		[REDACTED]
	Total	[REDACTED]
Grand Total Paid		\$ [REDACTED]

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 Acolus 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

*Handwritten:*  
12-23-15  
JK

*Handwritten:* NP

RECEIVED

Elk River Windfarm, LLC

An Oregon Limited Liability Company

JAN 12 2016

INVOICE

ACCOUNTING

Invoice Date: January 6, 2016
Due Date: January 26, 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 #: #28535
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, Current Month Prepayment, 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.

Handwritten: 253-165500

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

Total Amount Due To Elk River Windfarm, LLC:

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

Handwritten notes: Rec'd 1/12, 1-26-16, JTB

Handwritten initials: NP

RECVD  
2-10-15  
ACCTG

**INVOICE**

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

<b>The Empire District Electric Company</b> 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 0115
<b>TERMS</b> Net 10
<b>INVOICE DATE</b> 2/10/2015
<b>DUE DATE</b> 2/20/2015

253 - 555430

January-2015			
	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:

<b>JP Morgan Chase</b> Routing No: ██████ Account No: ██████ Account Name: Cloud County Ref: CCE Power Production
<i>For questions regarding this invoice, please call: Daniel Saldanha (713) 356-2568</i>

SCHED 2-20-15  
DL

NP

INVOICE

MAR 10 11:47 AM

Cloud County Wind Farm LLC

808 Travis St Ste 700

Houston, TX 77002

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

RECEIVED

MAR 11 '15

**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 0215
TERMS
Net 10
INVOICE DATE
3/10/2015
DUE DATE
3/20/2015

253-555430

February-2015			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output			\$
Lost Production			
Availability LDs			
Total Amount Due			\$

*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*

Rec'd  
3-20-15  
JYC

NP

APR 15 '15

INVOICE

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 0315
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
4/8/2015
<b>DUE DATE</b>
4/20/2015

MY

March-2015			
	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*

253 - 555430

NP

RECEIVED

MAY 13 '15

INVOICE

# 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 0415
<b>TERMS</b>	Net 10
<b>INVOICE DATE</b>	5/8/2015
<b>DUE DATE</b>	5/18/2015

253-555430

April-2015			
	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*

Rec'd  
5-15-15  
JAC

NP

RECEIVED

JUN 11 '15

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 0515
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
6/9/2015
<b>DUE DATE</b>
6/19/2015

May-2015			
	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*

253 - 555430

Rec'd from  
6-19-15  
DK

NR

**RECEIVED**

JUL 15 '15

**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 0615

**TERMS**

Net 10

**INVOICE DATE**

7/6/2015

**DUE DATE**

7/16/2015

*MT*

253 - 555430

June-2015			
	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*

*NR*

RECEIVED

AUG 11 '15

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 0715

TERMS

Net 10

INVOICE DATE

8/10/2015

DUE DATE

8/20/2015

253-555430

July-2015			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production			
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

Rec. 8/17  
8-20-15  
JH

NP

RECVD 9-14-15

INVOICE

**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 0815
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
9/9/2015
<b>DUE DATE</b>
9/21/2015

<b>August-2015</b>			
	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*

253-555430

Approved  
9-21-15  
JK

NP

RECEIVED

OCT 12 2015

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 0915

TERMS

Net 10

INVOICE DATE

10/8/2015

DUE DATE

10/19/2015

253-555430

September-2015			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	██████	██████	\$ ██████
Lost Production			
Availability LDs			
Total Amount Due			\$ ██████

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.

Refer back  
10-19-15  
DJK

NP

RECEIVED

NOV 10 2015

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 1015
<b>TERMS</b>
Net 10
<b>INVOICE DATE</b>
11/9/2015
<b>DUE DATE</b>
11/19/2015

253.555430

October-2015			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	██████	██████	\$ ██████
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 = ██████/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

Rec'd by  
11-19-15  
JH

NP

RECEIVED

DEC 15 2015

ACCOUNTING

INVOICE

### 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 1115

**TERMS**

Net 10

**INVOICE DATE**

12/8/2015

**DUE DATE**

12/18/2015

253-555430

November-2015			
	Energy (MWh)	Rate (\$/MWh)	Amount Due
Energy Output	[REDACTED]	[REDACTED]	\$ [REDACTED]
Lost Production			
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

Handwritten signature and date: 12-18-15

NP

RECEIVED

INVOICE

JAN 12 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

<b>INVOICE NO.</b>	CCE 1215
<b>TERMS</b>	Net 10
<b>INVOICE DATE</b>	1/8/2016
<b>DUE DATE</b>	1/18/2016

253 - 555430

December-2015			
	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*

*Assoc. to 1/18/16*  
*1-19-16*  
*OJH*

MP

EMPIRE

2016-2018 RES PLAN

ATTACHMENT 3

REC REPORT

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

Renewable Energy Certificate Position Report  
 Empire District Electric Company

Elk River 2015

	January 2015	February 2015	March 2015	April 2015	May 2015	June 2015	July 2015	August 2015	September 2015	October 2015	November 2015	December 2015	Total 2015
Expected REC's	50,855	44,584	60,957	58,757	40,897	50,133	30,737	37,594	35,645	30,293	53,558	57,309	571,859
**Actual REC's	46,312	40,269	5,846	12,090	292,365	254,068	23,672	23,672	23,672	23,672	23,672	23,672	509,347
MO Compliance for 2015													86,587
RECs Sold													
Counterparty													
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Commission \$%	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Net Revenue (\$)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Commission \$%	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Net Revenue (\$)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Quantity	0	0	0	0	0	0	0	0	0	0	0	0	0
Price (\$/REC)													
Gross Revenue	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Commission \$%	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Net Revenue (\$)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Cumulative Remaining RECs	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Gross Revenue	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Total Expense (Commission)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Total Net Revenue	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

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

ND

Renewable Energy Certificate Position Report  
 Empire District Electric Company

Meridian May 2015

HIGHLY CONFIDENTIAL

	January 2015	February 2015	March 2015	April 2015	May 2015	June 2015	July 2015	August 2015	September 2015	October 2015	November 2015	December 2015	Total 2015
Expected REC's	24,152	26,870	33,030	32,196	26,340	28,703	16,858	25,508	25,331	28,797	31,071	30,170	329,186
**Actual REC's													315,145
REC's Sold													0
Counterparty													
Quantity	0	81,906	0	0	0	0	0	0	0	0	0	0	81,906
Price (\$/REC)													
Gross Revenue													
Commission \$'s													
Net Revenue (\$)													
Quantity	0	152,842	0	0	0	0	0	0	0	0	0	0	152,842
Price (\$/REC)													
Gross Revenue													
Commission \$'s													
Net Revenue (\$)													
Quantity	0										216,552		216,552
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 REC's	0	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

2016-2018 RES PLAN

ATTACHMENT 4

2015 CUSTOMER GENERATED SRECS

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

							TOTAL
							SRECS 2015
Entry	Customer #	Agg Group	Rate	Type*	Operational Date	Power (kW)	(Post Tariff)
99		1	RG	PV	6/30/2015	16.47	11640.9754
71		1	RG	PV	6/19/2015	10.71	8157.63743
100		1	RG	PV	6/30/2015	9.76	6892.512
122		1	RG	PV	8/27/2015	4.88	2019.45419
65		1	CB	PV	6/12/2015	26.78	21243.7647
97		1	RG	PV	6/30/2015	27.29	19290.4495
58		1	RG	PV	6/4/2015	6.50	5399.81
63		1	RG	PV	6/11/2015	10.75	8570.0075
124		1	RG	PV	9/3/2015	5.46	2077.9668
117		1	RG	PV	8/21/2015	6.63	2941.77377
96		1	RG	PV	6/30/2015	16.32	11570.7848
73		1	RG	PV	6/22/2015	3.65	2723.96014
80		1	RG	PV	6/25/2015	9.76	7134.05573
68		1	RG	PV	6/17/2015	7.50	5763.525
62		1	RG	PV	6/11/2015	11.50	9177.09583
281		1	TEB	PV	12/23/2015	25.25	510.111871
279		1	TEB	PV	12/22/2015	25.25	573.875855
84		1	RG	PV	6/26/2015	5.50	4004.84792
106		1	RG	PV	7/24/2015	15.50	9067.6
74		1	RG	PV	6/22/2015	10.00	7473.14167
105		1	RG	PV	7/20/2015	10.20	6148.28306
115		1	RG	PV	8/20/2015	8.67	3870.32529
118		1	LP	PV	8/25/2015	25.50	10806.4887
66		1	RG	PV	6/15/2015	14.79	11507.3595
72		1	RG	PV	6/19/2015	9.69	7353.6441
214		1	TEB	PV	11/23/2015	25.22	2477.1084
78		1	CB	PV	6/24/2015	6.63	4879.26839
230		1	TEB	PV	11/30/2015	49.98	3943.422
114		1	RG	PV	8/20/2015	13.01	5835.17569
83		1	RG	PV	6/26/2015	7.28	5300.96233
98		1	RG	PV	6/30/2015	11.44	8088.06093
282		1	TEB	PV	12/23/2015	25.25	510.111871
111		1	RG	PV	8/10/2015	14.28	7118.48787
103		1	RG	PV	7/14/2015	6.10	3870.98129
92		1	RG	PV	6/29/2015	12.50	8898.60156
116		1	RG	PV	8/21/2015	9.69	4299.51552
160		1	RG	PV	10/20/2015	6.50	1311.34355
85		1	RG	PV	6/26/2015	8.16	5941.738
77		1	RG	PV	6/23/2015	7.40	5477.68294
113		1	RG	PV	8/20/2015	15.30	6864.91258
283		1	TEB	PV	12/23/2015	25.25	510.111871
90		1	RG	PV	6/26/2015	12.00	8737.85
89		1	RG	PV	6/26/2015	13.20	9611.635
149		1	GP	PV	10/5/2015	37.23	9503.37784
64		1	RG	PV	6/12/2015	9.76	7761.29027

NP

112	1	RG	PV	8/11/2015	9.36	4619.28077
86	1	RG	PV	6/26/2015	7.54	5490.28242
69	1	RG	PV	6/18/2015	9.50	7262.54417
137	1	RG	PV	9/22/2015	17.09	5223.2262
61	1	RG	PV	6/9/2015	4.73	3813.02578
67	1	RG	PV	6/16/2015	6.00	4639.56
82	1	RG	PV	6/26/2015	10.92	7951.4435
102	1	RG	PV	7/9/2015	16.58	10891.5149
60	1	RG	PV	6/9/2015	8.00	6460.70667
57	1	RG	PV	6/2/2015	10.50	8831.7425
95	1	RG	PV	6/30/2015	18.30	12974.5933
119	1	SH	PV	8/25/2015	26.78	11263.4652
101	1	RG	PV	7/6/2015	33.80	22789.7045
76	1	RG	PV	6/23/2015	8.00	5940.19333
75	1	RG	PV	6/22/2015	16.25	12114.7743
91	1	RG	PV	6/26/2015	14.64	10628.0361
228	1	RG	PV	11/30/2015	14.03	1106.5725
70	1	RG	PV	6/18/2015	12.75	9738.19234
87	1	RG	PV	6/26/2015	10.71	7798.53113
107	1	RG	PV	7/30/2015	6.24	3464.81032
81	1	RG	PV	6/25/2015	7.80	5699.84025
93	1	GP	PV	6/29/2015	25.00	17774.75
94	1	TEB	PV	6/29/2015	25.00	17769.7604
59	1	RG	PV	6/5/2015	3.76	3116.07807
104	1	RG	PV	7/16/2015	4.68	2923.46013
79	1	RG	PV	6/24/2015	7.28	5350.3632
88	1	RG	PV	6/26/2015	10.71	7798.53113
138	1	TEB	PV	9/22/2015	25.22	7710.2584
<b>528.0063</b>						
188	2	RG	PV	11/9/2015	14.54	1989.2601
266	2	RG	PV	12/18/2015	9.69	318.175839
175	2	RG	PV	10/29/2015	5.10	865.140968
165	2	RG	PV	10/22/2015	16.50	3211.05968
200	2	RG	PV	11/18/2015	10.20	1142.604
215	2	RG	PV	11/24/2015	9.18	876.3228
231	2	CB	PV	12/1/2015	25.76	1951.56435
233	2	RG	PV	12/2/2015	14.28	1045.98697
202	2	RG	PV	11/18/2015	14.79	1656.7758
209	2	RG	PV	11/20/2015	6.38	678.9375
56	2	RG	PV	5/27/2015	50.00	42585
178	2	RG	PV	11/3/2015	10.40	1595.568
128	2	RG	PV	9/9/2015	17.08	6096.5352
166	2	RG	PV	10/22/2015	11.22	2183.52058
152	2	RG	PV	10/12/2015	10.71	2466.37481
121	2	RG	PV	8/26/2015	9.95	4164.99808
108	2	RG	PV	7/30/2015	12.24	6796.35871
223	2	RG	PV	11/25/2015	16.07	1489.2255
181	2	RG	PV	11/6/2015	4.59	666.1926
170	2	RG	PV	10/26/2015	13.01	2345.30492

NP

167	2	RG	PV	10/23/2015	6.50	1241.77258
134	2	RG	PV	9/18/2015	12.24	3934.9152
177	2	RG	PV	10/30/2015	8.16	1355.11277
275	2	RG	PV	12/22/2015	11.99	272.446113
162	2	RG	PV	10/21/2015	6.89	1364.45153
183	2	RG	PV	11/6/2015	20.15	2923.8453
240	2	RG	PV	12/7/2015	15.40	933.538065
130	2	RG	PV	9/14/2015	15.30	5134.6545
189	2	RG	PV	11/10/2015	8.67	1162.647
216	2	RG	PV	11/24/2015	6.12	584.2152
176	2	RG	PV	10/29/2015	5.87	994.912113
191	2	RG	PV	11/10/2015	10.71	1436.211
173	2	RG	PV	10/27/2015	10.46	1834.15269
220	2	RG	PV	11/25/2015	10.46	969.1785
219	2	RG	PV	11/25/2015	10.20	945.54
194	2	RG	PV	11/12/2015	9.95	1278.7281
218	2	RG	PV	11/25/2015	5.10	472.77
131	2	RG	PV	9/15/2015	2.16	719.928
187	2	RG	PV	11/6/2015	11.99	1739.5029
169	2	RG	PV	10/23/2015	14.54	2776.79453
143	2	RG	PV	9/30/2015	13.77	3775.734
142	2	RG	PV	9/30/2015	11.48	3146.445
127	2	RG	PV	9/9/2015	5.36	1911.4137
269	2	RG	PV	12/18/2015	11.48	376.787177
109	2	RG	PV	8/3/2015	7.65	4080.18919
146	2	RG	PV	10/1/2015	9.36	2522.82194
196	2	RG	PV	11/13/2015	11.22	1411.7004
129	2	RG	PV	9/9/2015	7.14	2548.5516
150	2	RG	PV	10/7/2015	10.71	2657.42739
140	2	RG	PV	9/25/2015	4.50	1322.55
159	2	RG	PV	10/19/2015	16.07	3298.35179
164	2	RG	PV	10/22/2015	6.76	1315.56142
204	2	RG	PV	11/18/2015	14.79	1656.7758
133	2	RG	PV	9/18/2015	12.24	3934.9152
199	2	RG	PV	11/16/2015	14.28	1678.4712
179	2	RG	PV	11/4/2015	6.60	994.356
126	2	RG	PV	9/4/2015	7.50	2824.8
136	2	RG	PV	9/21/2015	16.07	4974.6879
139	2	RG	PV	9/25/2015	6.12	1798.668
135	2	RG	PV	9/18/2015	11.48	3688.983
248	2	RG	PV	12/11/2015	8.42	425.093226
145	2	RG	PV	9/30/2015	14.30	3921.06
232	2	RG	PV	12/2/2015	5.10	373.566774
192	2	RG	PV	11/12/2015	8.42	1082.0007
208	2	RG	PV	11/19/2015	7.40	807.9777
123	2	RG	PV	8/31/2015	8.00	3151.2
193	2	RG	PV	11/12/2015	9.69	1245.9402
144	2	RG	PV	9/30/2015	8.06	2210.052
132	2	RG	PV	9/16/2015	8.16	2687.5776

195	2	RG	PV	11/13/2015	5.60	704.592
163	2	RG	PV	10/21/2015	12.75	2526.7621
201	2	RG	PV	11/18/2015	5.10	571.302
151	2	RG	PV	10/7/2015	12.24	3037.05987
246	2	RG	PV	12/10/2015	30.60	1623.08323
244	2	RG	PV	12/9/2015	15.30	850.186452
182	2	RG	PV	11/6/2015	14.04	2037.7656
253	2	RG	PV	12/15/2015	26.27	1061.4449
120	2	RG	PV	8/26/2015	13.52	5660.1256
207	2	RG	PV	11/19/2015	5.36	585.0873
180	2	RG	PV	11/5/2015	7.65	1118.67863
264	2	RG	PV	12/18/2015	9.18	301.429742
247	2	RG	PV	12/11/2015	25.25	1275.27968
125	2	CB	PV	9/3/2015	16.83	6405.1614
168	2	RG	PV	10/23/2015	9.92	1895.136

211.677

225	3	RG	PV	11/30/2015	7.91	623.7045
172	3	RG	PV	10/27/2015	18.36	3245.51497
278	3	RG	PV	12/22/2015	18.20	413.727097
197	3	RG	PV	11/13/2015	11.22	1411.7004
206	3	RG	PV	11/18/2015	16.58	1856.7315
267	3	RG	PV	12/18/2015	10.20	334.921935
265	3	RG	PV	12/18/2015	8.67	284.683645
186	3	RG	PV	11/6/2015	4.58	664.45092
273	3	RG	PV	12/22/2015	5.10	115.934516
184	3	RG	PV	11/6/2015	4.48	650.2272
213	3	RG	PV	11/23/2015	11.50	1129.53
224	3	RG	PV	11/25/2015	19.38	1796.526
198	3	RG	PV	11/16/2015	4.48	526.5792
284	3	RG	PV	12/23/2015	27.54	556.485677
217	3	RG	PV	11/25/2015	5.10	472.77
241	3	RG	PV	12/8/2015	9.18	533.298774
226	3	RG	PV	11/30/2015	10.97	865.1385
270	3	RG	PV	12/18/2015	12.50	410.279371
212	3	RG	PV	11/23/2015	5.10	500.922
190	3	RG	PV	11/10/2015	6.00	804.6
276	3	RG	PV	12/22/2015	11.70	265.967419
243	3	RG	PV	12/9/2015	15.30	850.186452
158	3	RG	PV	10/13/2015	7.50	1700.39516
259	3	RG	PV	12/17/2015	10.20	360.685161
274	3	RG	PV	12/22/2015	10.20	231.869032
254	3	RG	PV	12/16/2015	8.00	303.096774
141	3	RG	PV	9/29/2015	7.80	2169.492
239	3	RG	PV	12/7/2015	9.44	571.943613
245	3	RG	PV	12/10/2015	17.08	905.956258
227	3	RG	PV	11/30/2015	11.99	945.6165
234	3	RG	PV	12/3/2015	6.50	459.696774
185	3	RG	PV	11/6/2015	4.48	650.2272
268	3	RG	PV	12/18/2015	11.22	368.414129

NP

237	3	RG	PV	12/4/2015	7.28	496.472516
262	3	RG	PV	12/18/2015	4.08	133.968774
287	3	CB	PV	12/29/2015	54.90	277.333548
257	3	RG	PV	12/17/2015	5.61	198.376839
286	3	RG	PV	12/29/2015	17.67	89.262
271	3	RG	PV	12/21/2015	13.26	334.921935
211	3	RG	PV	11/20/2015	13.52	1439.3475
255	3	RG	PV	12/17/2015	31.62	1118.124
229	3	RG	PV	11/30/2015	16.80	1325.52
251	3	RG	PV	12/14/2015	6.12	262.784903
261	3	CB	PV	12/17/2015	12.00	424.335484
238	3	RG	PV	12/7/2015	7.80	472.830968
249	3	CB	PV	12/11/2015	18.30	924.445161
258	3	RG	PV	12/17/2015	10.20	360.685161
171	3	RG	PV	10/27/2015	11.22	1983.37026
235	3	RG	PV	12/3/2015	8.32	588.411871
203	3	RG	PV	11/18/2015	13.44	1505.5488
148	3	RG	PV	10/2/2015	9.18	2441.55426
210	3	RG	PV	11/20/2015	12.74	1356.81
174	3	RG	PV	10/28/2015	9.69	1678.33926
252	3	CB	PV	12/15/2015	7.84	316.837161
280	3	RG	PV	12/23/2015	3.92	79.2092903
263	3	RG	PV	12/18/2015	5.10	167.460968
221	3	RG	PV	11/25/2015	11.20	1038.24
242	3	RG	PV	12/9/2015	8.93	495.942097
272	3	RG	PV	12/22/2015	8.00	181.858065
277	3	RG	PV	12/22/2015	14.00	318.251613
161	3	RG	PV	10/20/2015	6.12	1234.68039
250	3	RG	PV	12/11/2015	24.64	1244.71742
147	3	RG	PV	10/1/2015	16.00	4312.51613
236	3	RG	PV	12/3/2015	8.93	631.199032
222	3	RG	PV	11/25/2015	15.05	1394.6715
260	3	RG	PV	12/17/2015	9.98	352.728871
285	3	RG	PV	12/29/2015	4.56	23.0353548
153	3	RG	PV	10/12/2015	13.92	3205.59639
154	3	RG	PV	10/12/2015	10.26	2362.74561
155	3	CB	PV	10/12/2015	8.12	1869.93123
156	3	RG	PV	10/12/2015	20.88	4808.39458
157	3	CB	PV	10/12/2015	4.64	1068.53213
205	3	RG	PV	11/18/2015	16.07	1799.6013

**TOTAL GROUP 3 2015 SRECS**

**71.29987**

**TOTAL 2015 SRECS**

**810.9832**

NP

EMPIRE

2016-2018 RES PLAN

ATTACHMENT 5

RETAIL RATE CALCULATIONS

HIGHLY CONFIDENTIAL

NON-PROPRIETARY

## 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 and Ozark Beach Hydro – 16 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. 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.

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 applied to the 2016 IRP assumptions. 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 2015 Spring Reference Case database with modifications that included: 1) Weighted Henry Hub gas prices shown in Figure 1 and a weighted carbon tax. Figure 2 includes market prices for the SPP-KSMO market area with the impact of a carbon tax beginning in 2022.

*Figure 1 HH Gas Prices*

### Henry Hub

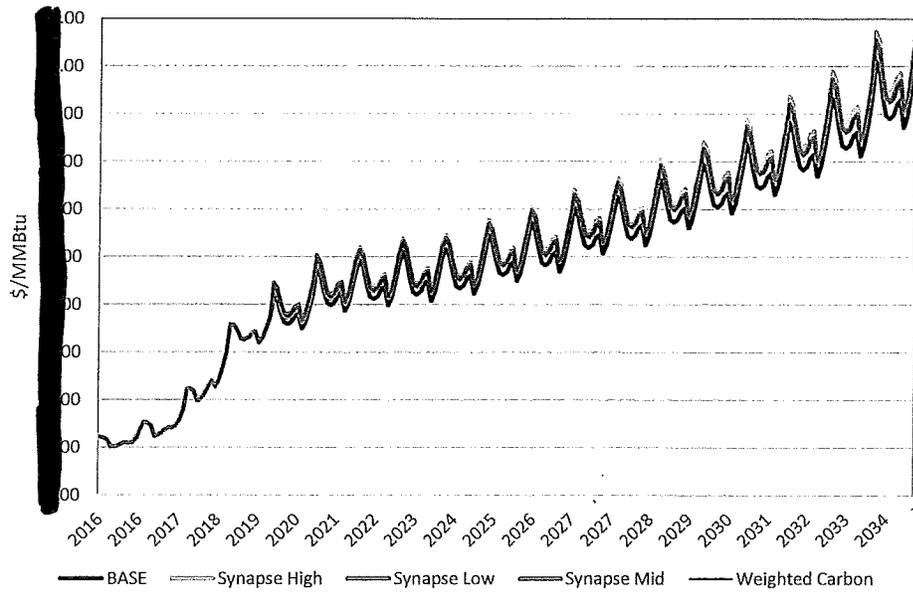


Table 1 Expected Value Carbon Tax

Year	10% No Carbon Cap	25% Synapse Low	50% Mid (based on EPA BB) Avg of Low & High	15% Synapse High	Expected Value
2022	-				
2023	-				
2024	-				
2025	-				
2026	-				
2027	-				
2028	-				
2029	-				
2030	-				
2031	-				
2032	-				
2033	-				
2034	-				



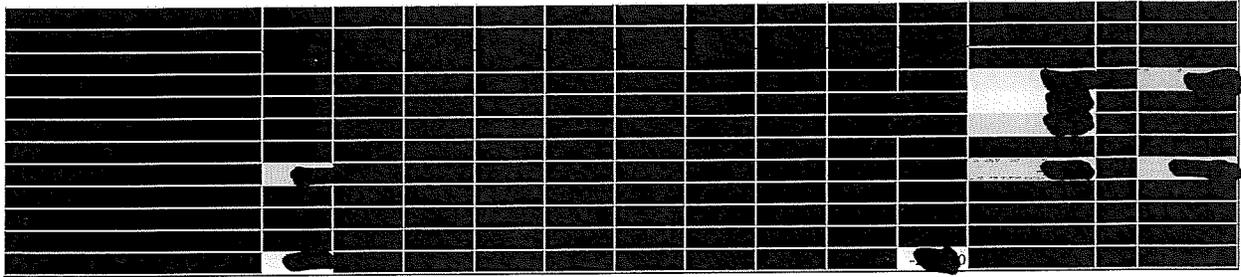
A grid of approximately 10 columns and 15 rows, almost entirely obscured by black redaction marks. Only a few white cells are visible, primarily in the right-hand side of the grid.

Table 5 2018-2027RRI Calculation Period

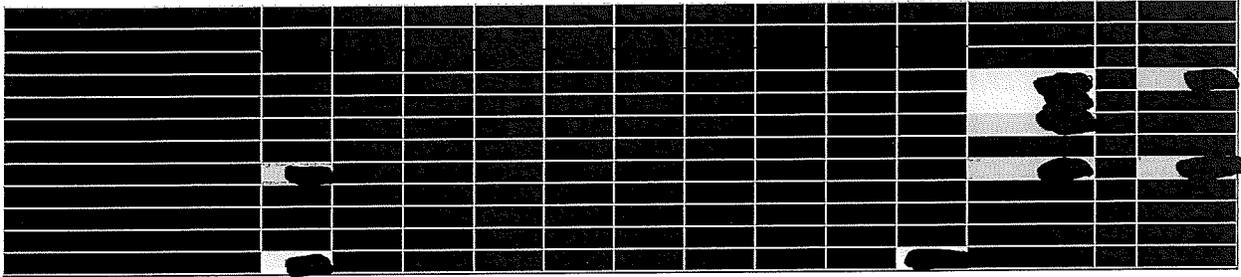
A grid of approximately 10 columns and 15 rows, almost entirely obscured by black redaction marks. Only a few white cells are visible, primarily in the right-hand side of the grid.

Table 6 2019-2028 RRI Calculation Period

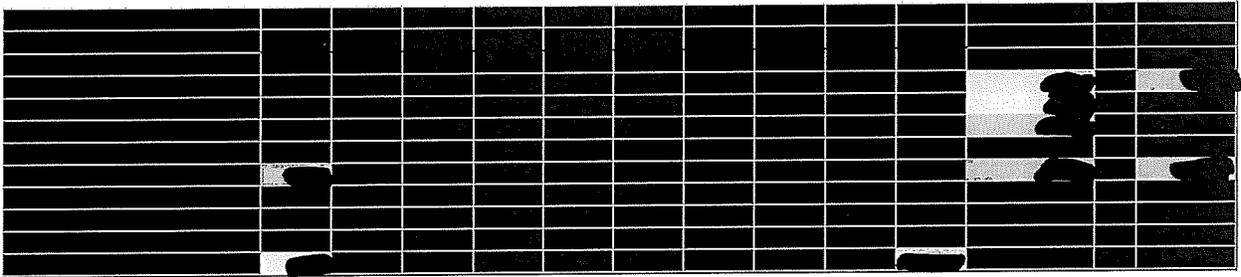
A grid of approximately 10 columns and 15 rows, almost entirely obscured by black redaction marks. Only a few white cells are visible, primarily in the right-hand side of the grid.

Table 7 2020-2029 RRI Calculation Period

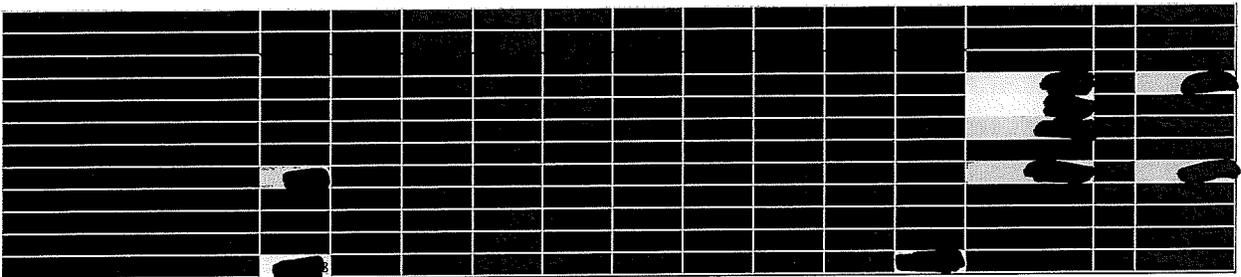
A grid of approximately 10 columns and 15 rows, almost entirely obscured by black redaction marks. Only a few white cells are visible, primarily in the right-hand side of the grid.

Table 8 2021-2030 RRI Calculation Period

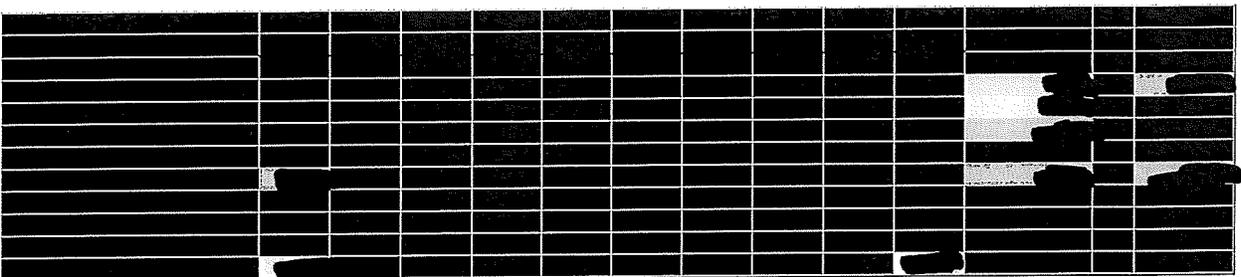
A grid of approximately 10 columns and 15 rows, almost entirely obscured by black redaction marks. Only a few white cells are visible, primarily in the right-hand side of the grid.

Table 9 2022-2031 RRI Calculation Period

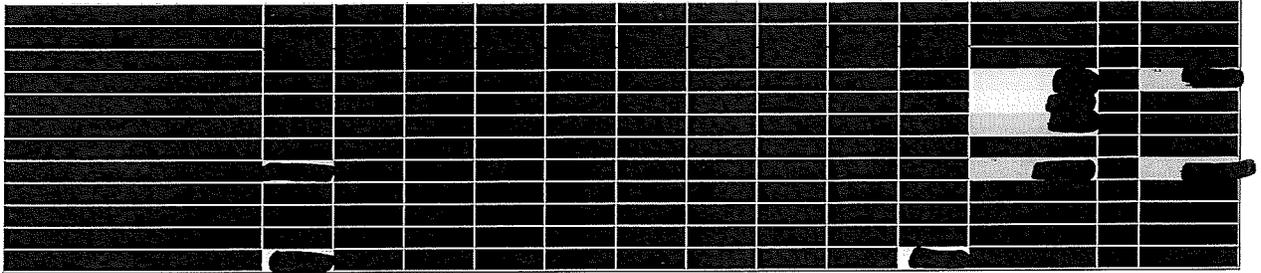
A grid table with approximately 12 columns and 10 rows. The majority of the cells are blacked out. Some cells in the right-hand side of the table are white, suggesting they contain data, but the text is illegible.

Table 10 2023-2032 RRI Calculation Period

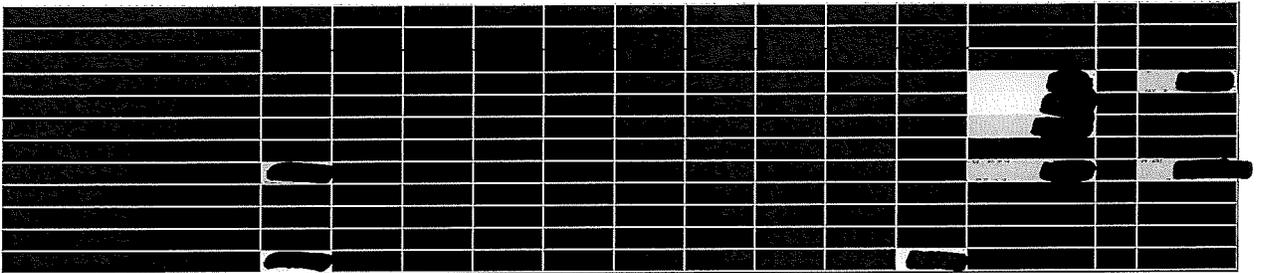
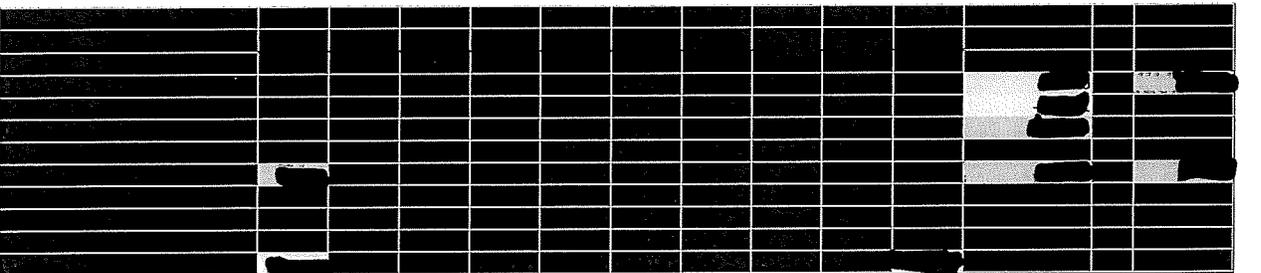
A grid table with approximately 12 columns and 10 rows. The majority of the cells are blacked out. Some cells in the right-hand side of the table are white, suggesting they contain data, but the text is illegible.

Table 11 2024-2033 RRI Calculation Period

A grid table with approximately 12 columns and 10 rows. The majority of the cells are blacked out. Some cells in the right-hand side of the table are white, suggesting they contain data, but the text is illegible.

Table 12 2025-2034 RRI Calculation Period

A grid table with approximately 12 columns and 10 rows. The majority of the cells are blacked out. Some cells in the right-hand side of the table are white, suggesting they contain data, but the text is illegible.