

**LIBERTY UTILITIES**  
**EMPIRE DISTRICT ELECTRIC COMPANY**

**2020**

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

**Prepared in Compliance with 20 CSR 4240-20.100**

**April 2021**

**\*\*Indicates Highly Confidential\*\***

**\*Indicates Confidential\***



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# **2020 ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE REPORT**

## **INTRODUCTION**

Pursuant to the Missouri Public Service Commission's (Commission) renewable energy standards rule, 20 CSR 4240-20.100(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 2020 RES Compliance Report on or before April 15, 2021.

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. In the past, this has allowed the use of

eligible Ozark Beach and Elk River Windfarm RECs generated in earlier years. In 2020, RECs generated in 2019 and 2020 were used for the RES requirement.

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 2020.

At the end of 2020, construction of the North Fork Ridge Wind project was completed. This 149- MW facility is located in Missouri and started generating RECs in December of 2020. In addition to this project, the 300-MW Neosho Ridge Wind project (located in Kansas), and the 149-MW Kings Point Wind project (located in Missouri) will reach commercial operation in 2021. Empire will also complete the addition of the 2.2-MW Prosperity Solar Farm in 2021.

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 2020 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 2020 Total Retail Sales**

<b>Year</b>	<b>MWh</b>	<b>Revenue</b>
2020	3,975,902	\$453,846,321

*Data Source: Customers Kilowatt Hours Revenue Report*

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

The following table indicates the renewable generation sources used during 2020 and the MWhs that were supplied.

**Table 2: Total 2020 Retail Electric Sales supplied by Renewable Energy**

<b>Facility</b>	<b>Generation (MWh)</b>	<b>Percentage</b>	<b>Energy Supplied to MO Retail Customers (MWh)</b>
Elk River	349,453	88.5%	309,266
Cloud County Meridian Way	251,115	88.5%	222,237
Ozark Beach	29,297	88.5%	25,928
<b>TOTAL</b>			<b>557,431</b>

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

In 2020, EDE-owned Ozark Beach generated energy which allowed for the creation of 29,297 RECs. Using the provision of the Missouri RES allowing for additional credit of 0.25, the resultant RECs available for compliance totaled 36,621 RECs (29,297 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 value of the energy generated by Ozark Beach for calendar year 2020 was \$\* \*/MWh as determined by the locational marginal pricing through the Southwest Power Pool (SPP).

## **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 Cloud County Meridian Way Wind Farm); and customer-generated solar. (See ATTACHMENT 1)

Pursuant to the terms of the two 20-year windfarm agreements, EDE purchases all of the output from the 150-megawatt Elk River Windfarm, and 105-megawatts from the Cloud County Meridian Way Wind Farm. EDE anticipates annual generation of approximately 378,000 MWhs from Elk River and approximately 292,000 MWhs from Meridian Way. In 2020, actual generation was lower than these amounts due to economic curtailment.

During 2020, 10,771 vintage 2020 RECs from hydroelectric generation at Ozark Beach were retired to help fulfill the non-solar Missouri compliance obligation. In addition, 353,483 vintage 2019 and 2020 RECs from generation at the Elk River Windfarm were retired for the non-solar RES obligation for 2020.

To meet the compliance obligation, 34,042 SRECs generated from EDE customers in 2019 were utilized. In total, 24,271 SRECs were retired in December of 2020. In April of 2021, 9771 SRECs were retired to complete the Missouri compliance obligation. Any remaining SRECs will be banked for future use. RECs from Ozark Beach and SRECs from

customer installed net metered systems are entitled to the 1.25 multiplying factor as they represent Missouri based generation.

The value of the customer generated solar energy was \$51.70/SREC. This value is determined using the rebate amount of \$21,009,846 paid in solar rebates divided by 40,638 (the amount of SRECs received). The rebate entitles EDE to receive SRECs from these systems for 10 years.

EDE utilizes the North American Renewable Registry (NARR) as recommended by Staff and approved by the Commission for tracking all RECs. In total, 364,254 RECs and 34,042 SRECs were retired to fulfill the 2020 Missouri compliance obligation. (See ATTACHMENT 2). In 2020 a total of 170,662 Meridian Way 2019 and 2020 wind RECs were sold. (See ATTACHMENT 4). A portion of the Elk River RECs (25,547) were retired for compliance with the Kansas voluntary RES.

## **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 35 which were used for compliance are registered with the NARR. Registration of additional EDE Solar Aggregates 36-39 has been approved by the NARR for 2020. 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. Carried forward are additional 2020 Elk River RECs totaling 73,325, and 2020 Ozark Beach RECs totaling 18,526. The majority of the remaining RECs are sold after all compliance obligations are met or held for future compliance. A portion of the Elk River RECs (25,547) were retired for compliance with the Kansas voluntary RES. Customer-generated solar SRECS totaling 40,638 will be carried forward for use in future compliance.

The Meridian Way Wind Farm was added to the registry in 2018. The RECs from



Meridian Way are not being used for Missouri compliance. 2020 Meridian Way RECs totaling 131,444 were carried forward and have been sold (See ATTACHMENT 4: REC REPORT). Although Meridian Way RECs are eligible for use, 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 170,662 Meridian Way (2019 and 2020) 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 (Cloud County)

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 Cloud County Meridian Way Wind Farm, have not been used to meet the requirements of any other local or state mandate.

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

ATTACHMENT 7 shows the system operational dates and estimated amounts of SRECs generated from customer generators using the Commission–approved estimation method, PVWatts. The SRECS were acquired by EDE as a condition of receiving the solar rebate instituted in May of 2015 and extending through 2020.

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

For the calendar year 2020, the annual number of customers that applied and received a solar rebate by December 31, 2020 in accordance with section (4) of the Rule was 351. A total of 2,938 Missouri solar net metering customers have been connected to the Empire system as of that date.

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

EDE makes every effort to award the solar rebate to every applicant. Applications have been delayed due to failure to comply or submit to the requirements of the rebate, but no applications have been denied.

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

Annual funds expended by EDE for 2020 solar rebates totaled \$1,145,488. Since the beginning of the rebate program over \$21 million has been expended for solar rebates.

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

See Affidavit of Compliance with 2020 Compliance Plan, ATTACHMENT 8.

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

EDE has made every effort to comply and believes it has achieved compliance with the Missouri RES Compliance Plan for the 2020 compliance period.

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

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

The Empire District Electric Company  
 Liberty Utilities  
 2020 Annual RES Compliance Report

The Empire District Electric Company  
 Liberty Utilities  
 2020 Annual RES Compliance Report  
 HIGHLY CONFIDENTIAL 20 CSR 4240-2.135(4)

**ATTACHMENT 1: RECS ACQUIRED**

HIGHLY CONFIDENTIAL payment amounts and meter readings are Highly Confidential.

PURCHASED POWER FROM CLOUD COUNTY MERIDIAN WAY WIND FARM

	<u>Payment</u>		<u>Date</u>	<u>Supplier Name</u>		<u>Meter Readings</u>
	<u>Amount</u>					
**	\$	-	**	2/13/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	3/10/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	4/15/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	5/8/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	6/10/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	7/13/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	8/13/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	9/16/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	10/20/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	11/16/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	12/11/2020	Cloud County Wind Farm LLC	** - **
**	\$	-	**	1/13/2021	Cloud County Wind Farm LLC	** - **
**	\$	-	**			** - **

PURCHASED POWER FROM ELK RIVER WINDFARM

	<u>Payment</u>		<u>Date</u>	<u>Supplier Name</u>		<u>Meter Readings</u>
	<u>Amount</u>					
**	\$	-	**	2/5/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	3/4/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	4/7/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	5/7/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	6/9/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	7/9/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	8/10/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	9/10/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	10/10/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	11/10/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	12/10/2020	Avangrid Renewables, LLC	** - **
**	\$	-	**	1/8/2021	Avangrid Renewables, LLC	** - **
**	\$	-	**			** - **

ATTACHMENT 2 RECS RETIRED FOR COMPLIANCE

Account	SubAccount	Subaccount	State	Compliance	NAR ID	Asset	Fuel/Project	Certificate
Empire Dis'	2020	Kansa	2897 KS	2020	GEN97	Elk River W	Wind	20-Oct
Empire Dis'	Default	RET	270 MO	2020	AGG2380	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2372	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2375	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2376	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2377	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2378	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2379	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2381	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2475	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2476	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2516	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2517	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2560	EDE SOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2561	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2648	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2649	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2650	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2848	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2847	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2849	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2850	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2851	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2321	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2322	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG2323	EDE Solar	A Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3260	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3261	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3262	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3263	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3264	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3265	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3266	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3267	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3268	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	AGG3269	EDESOLAR	Solar	19-Dec
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	19-Dec
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	20-Jan
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	19-Apr
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	19-Nov
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	20-Apr
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	20-Sep
Empire Dis'	Default	RET	270 MO	2020	GEN97	Elk River W	Wind	20-Feb

Empire Dis: DefaultRET	270 MO	2020 GEN97	Elk River W Wind	20-Mar
Empire Dis: DefaultRET	270 MO	2020 GEN97	Elk River W Wind	20-May
Empire Dis: DefaultRET	270 MO	2020 GEN97	Elk River W Wind	20-Jun
Empire Dis: DefaultRET	270 MO	2020 GEN97	Elk River W Wind	20-Jul
Empire Dis: DefaultRET	270 MO	2020 GEN97	Elk River W Wind	20-Aug
Empire Dis: DefaultRET	270 MO	2020 GEN99	Ozark Beac Hydroelect	20-Aug
Empire Dis: DefaultRET	270 MO	2020 GEN99	Ozark Beac Hydroelect	20-Mar
Empire Dis: DefaultRET	270 MO	2020 GEN99	Ozark Beac Hydroelect	20-Feb
Empire Dis: DefaultRET	270 MO	2020 GEN99	Ozark Beac Hydroelect	20-Sep
Empire Dis: DefaultRET	270 MO	2020 GEN99	Ozark Beac Hydroelect	20-Apr
Empire Dis: DefaultRET	270 MO	2020 GEN99	Ozark Beac Hydroelect	20-Jan

Certificate	Quantity	Compliance	MO	Retirement Date
NAR-REC-9	25547	25547	Yes	4/9/2021
NAR-AGG-2	1075	1343.75	Yes	#####
NAR-AGG-2	1243	1553.75	Yes	#####
NAR-AGG-2	1241	1551.25	Yes	#####
NAR-AGG-2	1156	1445	Yes	#####
NAR-AGG-2	1251	1563.75	Yes	#####
NAR-AGG-2	1222	1527.5	Yes	#####
NAR-AGG-2	1000	1250	Yes	#####
NAR-AGG-2	990	1237.5	Yes	#####
NAR-AGG-2	987	1233.75	Yes	#####
NAR-AGG-2	993	1241.25	Yes	#####
NAR-AGG-2	1210	1512.5	Yes	#####
NAR-AGG-2	1210	1512.5	Yes	#####
NAR-AGG-2	1139	1423.75	Yes	#####
NAR-AGG-2	894	1117.5	Yes	#####
NAR-AGG-2	1135	1418.75	Yes	#####
NAR-AGG-2	1287	1608.75	Yes	#####
NAR-AGG-2	1188	1485	Yes	#####
NAR-AGG-2	1346	1682.5	Yes	4/9/2021
NAR-AGG-2	1317	1646.25	Yes	#####
NAR-AGG-2	1492	1865	Yes	4/9/2021
NAR-AGG-2	520	650	Yes	4/9/2021
NAR-AGG-2	866	1082.5	Yes	4/9/2021
NAR-AGG-2	1347	1683.75	Yes	#####
NAR-AGG-2	1223	1528.75	Yes	#####
NAR-AGG-2	1163	1453.75	Yes	#####
NAR-AGG-3	1081	1351.25	Yes	4/9/2021
NAR-AGG-3	974	1217.5	Yes	4/9/2021
NAR-AGG-3	826	1032.5	Yes	4/9/2021
NAR-AGG-3	765	956.25	Yes	4/9/2021
NAR-AGG-3	434	542.5	Yes	4/9/2021
NAR-AGG-3	594	742.5	Yes	4/9/2021
NAR-AGG-3	272	340	Yes	4/9/2021
NAR-AGG-3	384	480	Yes	4/9/2021
NAR-AGG-3	182	227.5	Yes	4/9/2021
NAR-AGG-3	35	43.75	Yes	4/9/2021
	34042	42552.5		
NAR-REC-9	41380	41380	Yes	#####
NAR-REC-9	34547	34547	Yes	#####
NAR-REC-9	27443	27443	Yes	#####
NAR-REC-9	34079	34079	Yes	#####
NAR-REC-9	20988	20988	Yes	#####
NAR-REC-9	24373	24373	Yes	#####
NAR-REC-9	32117	32117	Yes	#####

NAR-REC-9	26418	26418	Yes	#####
NAR-REC-9	25204	25204	Yes	#####
NAR-REC-9	35316	35316	Yes	#####
NAR-REC-9	25362	25362	Yes	#####
NAR-REC-9	26256	26256	Yes	#####
	353483	353483		
NAR-REC-9	163	203.75	Yes	#####
NAR-REC-9	6829	8536.25	Yes	#####
NAR-REC-9	1623	2028.75	Yes	#####
NAR-REC-9	1234	1542.5	Yes	#####
NAR-REC-9	34	42.5	Yes	#####
NAR-REC-9	888	1110	Yes	#####
	10771	13463.75		



ATTACHMENT 3 RECS CARRIED FORWARD

Sub-Account	NAR ID	Asset	Fuel/Project	Certificate	Certificate	Quantity	Transferor	MO Compli
	269	AGG2380	EDE Solar	A Solar	20-Dec NAR-AGG-2	1075		1343.75
	269	AGG2372	EDE Solar	A Solar	20-Dec NAR-AGG-2	1244		1555
	269	AGG2375	EDE Solar	A Solar	20-Dec NAR-AGG-2	1241		1551.25
	269	AGG2376	EDE Solar	A Solar	20-Dec NAR-AGG-2	1133		1416.25
	269	AGG2377	EDE Solar	A Solar	20-Dec NAR-AGG-2	1250		1562.5
	269	AGG2378	EDE Solar	A Solar	20-Dec NAR-AGG-2	1221		1526.25
	269	AGG2379	EDE Solar	A Solar	20-Dec NAR-AGG-2	1000		1250
	269	AGG2381	EDE Solar	A Solar	20-Dec NAR-AGG-2	971		1213.75
	269	AGG2475	EDE Solar	A Solar	20-Dec NAR-AGG-2	986		1232.5
	269	AGG2476	EDE Solar	A Solar	20-Dec NAR-AGG-2	1003		1253.75
	269	AGG2516	EDE Solar	A Solar	20-Dec NAR-AGG-2	1210		1512.5
	269	AGG2517	EDE Solar	A Solar	20-Dec NAR-AGG-2	1179		1473.75
	269	AGG2560	EDE SOLAR	Solar	20-Dec NAR-AGG-2	1128		1410
	269	AGG2561	EDE Solar	A Solar	20-Dec NAR-AGG-2	905		1131.25
	269	AGG2648	EDE Solar	A Solar	20-Dec NAR-AGG-2	1130		1412.5
	269	AGG2649	EDE Solar	A Solar	20-Dec NAR-AGG-2	1273		1591.25
	269	AGG2650	EDE Solar	A Solar	20-Dec NAR-AGG-2	1156		1445
	269	AGG2848	EDE Solar	A Solar	20-Dec NAR-AGG-2	1336		1670
	269	AGG2847	EDE Solar	A Solar	20-Dec NAR-AGG-2	1317		1646.25
	269	AGG2849	EDE Solar	A Solar	20-Dec NAR-AGG-2	1471		1838.75
	269	AGG2850	EDE Solar	A Solar	20-Dec NAR-AGG-2	520		650
	269	AGG2851	EDE Solar	A Solar	20-Dec NAR-AGG-2	844		1055
	269	AGG2321	EDE Solar	A Solar	20-Dec NAR-AGG-2	1339		1673.75
	269	AGG2322	EDE Solar	A Solar	20-Dec NAR-AGG-2	1176		1470
	269	AGG2323	EDE Solar	A Solar	20-Dec NAR-AGG-2	1138		1422.5
	269	AGG3260	EDESOLAR	Solar	20-Dec NAR-AGG-3	1077		1346.25
	269	AGG3261	EDESOLAR	Solar	20-Dec NAR-AGG-3	1088		1360
	269	AGG3262	EDESOLAR	Solar	20-Dec NAR-AGG-3	1034		1292.5
	269	AGG3263	EDESOLAR	Solar	20-Dec NAR-AGG-3	1099		1373.75
	269	AGG3264	EDESOLAR	Solar	20-Dec NAR-AGG-3	727		908.75
	269	AGG3265	EDESOLAR	Solar	20-Dec NAR-AGG-3	1012		1265
	269	AGG3266	EDESOLAR	Solar	20-Dec NAR-AGG-3	604		755
	269	AGG3267	EDESOLAR	Solar	20-Dec NAR-AGG-3	1243		1553.75
	269	AGG3268	EDESOLAR	Solar	20-Dec NAR-AGG-3	1148		1435
	269	AGG3269	EDESOLAR	Solar	20-Dec NAR-AGG-3	1156		1445
						38434		
	269	GEN97	Elk River W	Wind	20-Dec NAR-REC-9	35283		35283
	269	GEN97	Elk River W	Wind	20-Nov NAR-REC-9	33990		33990
	269	GEN97	Elk River W	Wind	20-Oct NAR-REC-9	4052		4052
						73325		
	269	GEN99	Ozark Beac	Hydroelect	20-Oct NAR-REC-9	3509		4386.25
	269	GEN99	Ozark Beac	Hydroelect	20-Dec NAR-REC-9	7581		9476.25
	269	GEN99	Ozark Beac	Hydroelect	20-Nov NAR-REC-9	7436		9295
						18526		

269 GEN366 Stanton SolSolar 15-May NAR-REC-3 952 3Degrees C 952

APPROVED BY MDNR	20-Dec NAR-AGG3	846.37
AWAITING APPROVAL BY NARR	20-Dec NAR-AGG3	691.98
	20-Dec NAR-AGG3	461.38
	20-Dec NAR- AGG3	204.48
		2204.21
TOTAL		133441.2

MERIDIAN WAY RECS CARRIED FORWARD, SOLD IN MARCH 2021

NAR-REC-98-KS-07-2020-103092-3425 to 17122 - Quantity: 13698;	13698
NAR-REC-98-KS-08-2020-104450-4069 to 20340 - Quantity: 16272;	16272
NAR-REC-98-KS-10-2020-107579-3610 to 18046 - Quantity: 14437;	14437
NAR-REC-98-KS-11-2020-108207-4035 to 20172 - Quantity: 16138;	16138
NAR-REC-98-KS-05-2020-102734-1 to 16729 - Quantity: 16729;	16729
NAR-REC-98-KS-06-2020-103335-5406 to 27027 - Quantity: 21622;	21622
NAR-REC-98-KS-09-2020-107025-4699 to 23488 - Quantity: 18790;	18790
NAR-REC-98-KS-12-2020-109302-3441 to 17198 - Quantity: 13758	13758
TOTAL	131444

MO

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

No

The Empire District Electric Company  
 Liberty Utilities  
 2021-2023 RES Compliance Plan  
 HIGHLY CONFIDENTIAL 20 CSR 4240-2.135(4)  
 ATTACHMENT 2 REC REPORT  
 Elk River 2020

**HIGHLY CONFIDENTIAL Contract pricing and amounts.**

Empire District Electric Company

	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	August 2020
Expected R	47725	45442	53109	54018	41339	36294	33341	34123
**Actual Rl	**-----**	**-----**	**-----**	**-----**	**-----**	**-----**	**-----**	**-----**

REC's Sold \*\*

MO Compli	34547	32117	26418	20988	25204	35316	25362	26256
-----------	-------	-------	-------	-------	-------	-------	-------	-------

KS Voluntary Goal 2020

Counterparty

Quantity	0	0		0		0	0	0
Price (\$/REC)		0		0		0	0	0
Gross Reve	0	0	0	0	0	0	0	0
Commissio	0	0	0	0	0	0	0	0
Net Revent	0	0	0	0	0	0	0	0

Quantity	0	0			0		0	0
Price (\$/RE	0	0			0		0	0
Gross Reve	0	0		0	0	0	0	0
Commissio	0	0		0	0		0	0
Net Revent	0	0		0	0	0	0	0

Quantity	0	0	0	0	0	0	0	0
Price (\$/RE	0	0		0	0	0	0	0
Gross Reve	0	0	0	0	0	0	0	0
Commissio	0	0	0	0	0	0	0	0
Net Revent	0	0	0	0	0	0	0	0

Quantity	0	0	0	0	0	0	0	0
Price (\$/RE	0		0	0	0	0	0	0
Gross Reve	0	0	0	0	0	0	0	0
Commissio	0	0	0	0	0	0	0	0
Net Revent	0	0	0	0	0	0	0	0

Quantity	0	0	0	0	0	0	0	0
Price (\$/RE	0	0	0	0	0	0	0	0
Gross Reve	0	0	0	0	0	0	0	0
Commissio	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0

Cumulative Remaining RECs

Total Gross	0	0	0	0	0	0	0	0
Total Exper	0	0	0	0	0	0	0	0
Total Net R	0	0	0	0	0	0	0	0

\*\* The age of the Elk River Wind Farm devalues the RECs in the market.

September	October	November	December	Total
2020	2020	2020	2020	2020
37783	44718	51672	44313	523877
**_____**	**_____**	**_____**	**_____**	**_____**
				0
24373				250581
	25547			
0	0	0		0
0	0	0		
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
	0	0		
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
**_____**	*_____**	**_____**		**_____**

0	0		0	0
0	0	0	0	0
0	0	0	0	0



ATTACHMENT 5:

WIND GENERATION ALLOCATION FOR MO RETAIL CUSTOMERS 2020

<b>Facility</b>	<b>Generation (MWh)</b>	<b>Percentage*</b>	<b>Energy Supplied to Missouri Retail Customers (MWh)</b>
Elk River Windfarm	349,453	88.5%	309,266
Cloud County Meridian Way Windfarm	251,115	88.5%	222,237

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



The Empire District Electric Company  
 Liberty Utilities  
 2019 Annual RES Compliance Report  
 HIGHLY CONFIDENTIAL 20 CSR 4240-2.135(4)  
 ATTACHMENT 6 ATTESTATIONS PUBLIC VERSION

## 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: **Zina Parks**

Title: **Analyst**

Telephone: **503-796-7158**

Email Address: **zina.parks@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	**	Q1/2020
Wind	**	Q2/2020
Wind	**	Q3/2020
Wind	**	Q4/2020

<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, (print name and title) Ryan Ohira, 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<sup>7</sup>;
- 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>8</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) 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>9</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: \_\_\_\_\_

<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> The carbon attribute associated with capture and destruction of biogenic methane is not required to be included with renewable electricity generation and may be sold separately in the form of an offset if an appropriate offset calculation methodology is used; see Section II.A.5 of the Green-e Energy National Standard.

<sup>8</sup> Renewable attributes used by Purchaser for any of the purposes listed in 4) are ineligible for Green-e Energy certification.

<sup>9</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.

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.

DS  
JD

DocuSigned by:

*Ryan Oliva*  
Signature

4/5/2021

Date

**Portland, Oregon**

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

The Empire District Electric Company  
Liberty Utilities  
2020 Annual RES Compliance Report  
Highly Confidential 20 CSR 4240-2.135(4)

## 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: Ray Eureste Title: Settlements Analyst

Telephone: (713) 265-0350 Email Address: ray.eureste@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	** **	1/2020
Wind	** **	2/2020
Wind	** **	3/2020

**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

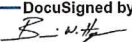
**IV. Additional statement required for and applicable to biomass facilities only**

- 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.

DocuSigned by:  
  
 \_\_\_\_\_  
 Signature

March 4, 2021  
 \_\_\_\_\_  
 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

The Empire District Electric Company  
Liberty Utilities  
2020 Annual RES Compliance Report  
Highly Confidential 20 CSR 4240-2.135(4)

## 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: Ray Eureste Title: Settlements Analyst

Telephone: (713) 265-0350 Email Address: ray.eureste@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.

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<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	**	**	4/2020
Wind	**	**	5/2020
Wind	**	**	6/2020

### **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;
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- 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

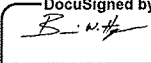
**IV. Additional statement required for and applicable to biomass facilities only**

- 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.

DocuSigned by:  
  
1AA6B44331BC410...  
Signature \_\_\_\_\_ Date March 4, 2021

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

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## 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: Ray Eureste Title: Settlements Analyst

Telephone: (713) 265-0350 Email Address: ray.eureste@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	** **	7/2020
Wind	** **	8/2020
Wind	** **	9/2020

**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**

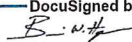
- 1) I attest that no more than five percent (5%) fossil fuels and other fuels that are not Green-e Energy eligible, measured on a BTU basis, were used, including as a start-up, pilot or supplemental fuel, to produce the electricity and/or RECs in the above Green-e Energy eligible biomass generation 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

DocuSigned by:  
  
 1AA6B44331BC410...

March 4, 2021  
 \_\_\_\_\_  
 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.



The Empire District Electric Company  
 Liberty Utilities  
 2020 Annual RES Compliance Report  
 Highly Confidential 20 CSR 4240-2.135(4)

## 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: Ray Eureste Title: Settlements Analyst

Telephone: (713) 265-0350 Email Address: ray.eureste@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	**	**	10/2020
Wind	**	**	11/2020
Wind	**	**	12/2020

**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.

DocuSigned by:  
  
\_\_\_\_\_  
Signature

March 4, 2021  
\_\_\_\_\_  
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.



ATTACHMENT 7 SOLAR CUSTOMER NET GENERATION  
 SOLAR SYSTEMS 2020

operational_date	endrebate_date	acct_pkg	service_state	service_zip
02-Jun-2015	02-Jun-2025	781745-44-329	MO	65672
04-Jun-2015	04-Jun-2025	040872-09-968	MO	65785
05-Jun-2015	05-Jun-2025	957681-14-965	MO	64801
09-Jun-2015	09-Jun-2025	779907-41-562	MO	65613
09-Jun-2015	09-Jun-2025	684795-95-148	MO	65738
11-Jun-2015	11-Jun-2025	194769-48-023	MO	64870
11-Jun-2015	11-Jun-2025	074758-65-403	MO	65781
12-Jun-2015	12-Jun-2025	577508-94-144	MO	64804
12-Jun-2015	12-Jun-2025	028095-68-545	MO	64836
15-Jun-2015	15-Jun-2025	310896-97-737	MO	64804
16-Jun-2015	16-Jun-2025	754879-82-784	MO	64801
17-Jun-2015	17-Jun-2025	177850-39-724	MO	64836
18-Jun-2015	18-Jun-2025	625380-01-653	MO	65653
18-Jun-2015	18-Jun-2025	911926-38-745	MO	65616
19-Jun-2015	19-Jun-2025	009178-75-071	MO	64801
19-Jun-2015	19-Jun-2025	319495-72-106	MO	64836
19-Jun-2015	19-Jun-2025	986806-96-977	MO	64836
22-Jun-2015	22-Jun-2025	128237-32-608	MO	64804
22-Jun-2015	22-Jun-2025	271775-96-675	MO	64804
22-Jun-2015	22-Jun-2025	888950-60-169	MO	65613
23-Jun-2015	23-Jun-2025	860251-33-315	MO	64801
23-Jun-2015	23-Jun-2025	539522-01-157	MO	64850
24-Jun-2015	24-Jun-2025	332979-01-087	MO	64850
24-Jun-2015	24-Jun-2025	957942-77-681	MO	64870
25-Jun-2015	25-Jun-2025	164908-25-894	MO	64836
25-Jun-2015	25-Jun-2025	937577-74-722	MO	64870
26-Jun-2015	26-Jun-2025	241951-40-305	MO	64755
26-Jun-2015	26-Jun-2025	342118-30-367	MO	64836
26-Jun-2015	26-Jun-2025	534030-15-475	MO	64834
26-Jun-2015	26-Jun-2025	555409-74-744	MO	64804
26-Jun-2015	26-Jun-2025	572367-50-946	MO	64804
26-Jun-2015	26-Jun-2025	605432-49-971	MO	64859
26-Jun-2015	26-Jun-2025	774730-03-127	MO	64804
26-Jun-2015	26-Jun-2025	912332-16-390	MO	64834
26-Jun-2015	26-Jun-2025	968660-34-442	MO	65707
26-Jun-2015	26-Jun-2025	890358-79-180	MO	65613
29-Jun-2015	29-Jun-2025	400938-69-303	MO	64801
29-Jun-2015	29-Jun-2025	953511-50-548	MO	65785
29-Jun-2015	29-Jun-2025	953511-50-010	MO	65785
30-Jun-2015	30-Jun-2025	116393-89-578	MO	65785
30-Jun-2015	30-Jun-2025	802193-04-294	MO	65723
30-Jun-2015	30-Jun-2025	040742-41-296	MO	64850
30-Jun-2015	30-Jun-2025	360152-23-835	MO	64836
30-Jun-2015	30-Jun-2025	007709-67-019	MO	64836

30-Jun-2015	30-Jun-2025	777132-17-178	MO	65737
30-Jun-2015	30-Jun-2025	018272-09-011	MO	64850
06-Jul-2015	06-Jul-2025	848859-21-424	MO	64850
14-Jul-2015	14-Jul-2025	389151-94-080	MO	64801
16-Jul-2015	16-Jul-2025	957681-14-965	MO	64801
20-Jul-2015	20-Jul-2025	275243-45-338	MO	65785
24-Jul-2015	24-Jul-2025	244244-80-239	MO	65785
30-Jul-2015	30-Jul-2025	932084-31-268	MO	64801
10-Aug-2015	10-Aug-2025	386437-36-117	MO	65757
11-Aug-2015	11-Aug-2025	587400-96-622	MO	64801
20-Aug-2015	20-Aug-2025	339885-28-034	MO	65605
20-Aug-2015	20-Aug-2025	541278-56-119	MO	65723
20-Aug-2015	20-Aug-2025	284058-71-327	MO	64836
21-Aug-2015	21-Aug-2025	110432-70-590	MO	65646
21-Aug-2015	21-Aug-2025	492571-31-171	MO	65646
25-Aug-2015	25-Aug-2025	285523-43-391	MO	64804
25-Aug-2015	25-Aug-2025	845073-13-334	MO	65616
27-Aug-2015	27-Aug-2025	018272-09-011	MO	64850
03-Sep-2015	03-Sep-2025	075228-31-488	MO	64804
22-Sep-2015	22-Sep-2025	643603-16-571	MO	65616
22-Sep-2015	22-Sep-2025	971744-27-186	MO	65616
05-Oct-2015	05-Oct-2025	575077-30-770	MO	65721
20-Oct-2015	20-Oct-2025	499445-31-583	MO	64804
23-Nov-2015	23-Nov-2025	329577-01-731	MO	65616
30-Nov-2015	30-Nov-2025	336311-83-129	MO	65616
22-Dec-2015	22-Dec-2025	231408-26-100	MO	65616
23-Dec-2015	23-Dec-2025	209510-52-871	MO	65616
23-Dec-2015	23-Dec-2025	366873-50-743	MO	65616
23-Dec-2015	23-Dec-2025	547169-80-014	MO	65616
27-May-2015	27-May-2025	124692-11-150	MO	64804
30-Jul-2015	30-Jul-2025	185911-70-510	MO	64836
03-Aug-2015	03-Aug-2025	502738-01-901	MO	64801
26-Aug-2015	26-Aug-2025	168024-21-036	MO	65781
26-Aug-2015	26-Aug-2025	901473-23-172	MO	65781
31-Aug-2015	31-Aug-2025	799413-63-439	MO	65738
03-Sep-2015	03-Sep-2025	430546-90-444	MO	64834
04-Sep-2015	04-Sep-2025	699273-31-497	MO	64836
09-Sep-2015	09-Sep-2025	133261-96-496	MO	64836
09-Sep-2015	09-Sep-2025	483540-06-477	MO	65804
09-Sep-2015	09-Sep-2025	548964-81-999	MO	65781
14-Sep-2015	14-Sep-2025	341313-80-607	MO	64836
15-Sep-2015	15-Sep-2025	460711-54-023	MO	65653
16-Sep-2015	16-Sep-2025	813279-50-069	MO	65721
18-Sep-2015	18-Sep-2025	253952-08-461	MO	64804
18-Sep-2015	18-Sep-2025	651854-35-241	MO	65738
18-Sep-2015	18-Sep-2025	737261-16-324	MO	64801
21-Sep-2015	21-Sep-2025	705854-14-708	MO	65622

25-Sep-2015	25-Sep-2025	072650-63-481	MO	65672
25-Sep-2015	25-Sep-2025	558887-23-807	MO	65788
30-Sep-2015	30-Sep-2025	470717-30-067	MO	64755
30-Sep-2015	30-Sep-2025	475306-07-568	MO	64850
30-Sep-2015	30-Sep-2025	773445-73-648	MO	65757
30-Sep-2015	30-Sep-2025	809312-74-355	MO	65721
01-Oct-2015	01-Oct-2025	524234-46-354	MO	64844
07-Oct-2015	07-Oct-2025	551922-64-806	MO	64804
07-Oct-2015	07-Oct-2025	858831-86-257	MO	65738
12-Oct-2015	12-Oct-2025	135464-20-573	MO	64801
19-Oct-2015	19-Oct-2025	565517-22-136	MO	64834
21-Oct-2015	21-Oct-2025	310896-97-737	MO	64804
21-Oct-2015	21-Oct-2025	848233-28-244	MO	65672
22-Oct-2015	22-Oct-2025	070895-52-062	MO	65640
22-Oct-2015	22-Oct-2025	133573-54-424	MO	65653
22-Oct-2015	22-Oct-2025	587064-14-782	MO	64859
23-Oct-2015	23-Oct-2025	247637-73-801	MO	64850
23-Oct-2015	23-Oct-2025	468546-32-689	MO	64836
23-Oct-2015	23-Oct-2025	978443-29-739	MO	64870
26-Oct-2015	26-Oct-2025	226317-11-711	MO	65723
27-Oct-2015	27-Oct-2025	405482-07-962	MO	65721
29-Oct-2015	29-Oct-2025	057049-13-052	MO	65781
29-Oct-2015	29-Oct-2025	376111-33-282	MO	65663
30-Oct-2015	30-Oct-2025	270198-68-320	MO	65705
03-Nov-2015	03-Nov-2025	128539-94-610	MO	65721
04-Nov-2015	04-Nov-2025	678971-05-001	MO	65708
05-Nov-2015	05-Nov-2025	927995-96-454	MO	64804
06-Nov-2015	06-Nov-2025	225807-16-892	MO	64804
06-Nov-2015	06-Nov-2025	311392-78-557	MO	64734
06-Nov-2015	06-Nov-2025	460711-54-023	MO	65653
06-Nov-2015	06-Nov-2025	893219-80-153	MO	65721
09-Nov-2015	09-Nov-2025	035456-36-043	MO	65616
10-Nov-2015	10-Nov-2025	346141-20-983	MO	64804
10-Nov-2015	10-Nov-2025	403780-24-344	MO	64870
10-Nov-2015	10-Nov-2025	433368-34-367	MO	64804
12-Nov-2015	12-Nov-2025	454542-55-872	MO	64836
12-Nov-2015	12-Nov-2025	785759-33-713	MO	65721
12-Nov-2015	12-Nov-2025	804180-12-708	MO	64854
13-Nov-2015	13-Nov-2025	531331-39-891	MO	65737
13-Nov-2015	13-Nov-2025	846072-63-166	MO	65616
16-Nov-2015	16-Nov-2025	656930-01-051	MO	65672
18-Nov-2015	18-Nov-2025	088058-62-158	MO	64834
18-Nov-2015	18-Nov-2025	109033-18-378	MO	65738
18-Nov-2015	18-Nov-2025	601022-85-381	MO	65616
18-Nov-2015	18-Nov-2025	850238-78-952	MO	65605
19-Nov-2015	19-Nov-2025	788293-49-715	MO	65606
19-Nov-2015	19-Nov-2025	908791-70-575	MO	65781

20-Nov-2015	20-Nov-2025	110561-84-725	MO	65721
24-Nov-2015	24-Nov-2025	090355-73-998	MO	64801
24-Nov-2015	24-Nov-2025	357996-13-324	MO	65616
25-Nov-2015	25-Nov-2025	221599-64-880	MO	65613
25-Nov-2015	25-Nov-2025	411332-47-233	MO	65610
25-Nov-2015	25-Nov-2025	453962-83-192	MO	65613
25-Nov-2015	25-Nov-2025	459634-81-089	MO	65738
30-Nov-2015	30-Nov-2025	891915-57-845	MO	65781
01-Dec-2015	01-Dec-2025	104778-11-480	MO	64804
02-Dec-2015	02-Dec-2025	108597-92-113	MO	64865
02-Dec-2015	02-Dec-2025	782228-07-674	MO	65721
07-Dec-2015	07-Dec-2025	330848-68-689	MO	65785
09-Dec-2015	09-Dec-2025	882794-73-871	MO	65653
10-Dec-2015	10-Dec-2025	865990-58-817	MO	65616
11-Dec-2015	11-Dec-2025	751245-80-128	MO	65781
11-Dec-2015	11-Dec-2025	959816-27-068	MO	64801
15-Dec-2015	15-Dec-2025	894409-37-920	MO	65723
18-Dec-2015	18-Dec-2025	038226-12-994	MO	65648
18-Dec-2015	18-Dec-2025	492220-27-802	MO	65753
18-Dec-2015	18-Dec-2025	940473-48-754	MO	65721
22-Dec-2015	22-Dec-2025	275186-82-617	MO	65616
29-Sep-2015	29-Sep-2025	433247-97-575	MO	64804
01-Oct-2015	01-Oct-2025	927485-08-350	MO	65785
02-Oct-2015	02-Oct-2025	757574-63-687	MO	65622
12-Oct-2015	12-Oct-2025	986301-07-160	MO	65707
12-Oct-2015	12-Oct-2025	986301-07-252	MO	65707
12-Oct-2015	12-Oct-2025	986301-07-404	MO	65707
12-Oct-2015	12-Oct-2025	986301-07-876	MO	65707
12-Oct-2015	12-Oct-2025	986301-07-984	MO	65707
13-Oct-2015	13-Oct-2025	334096-28-860	MO	64834
20-Oct-2015	20-Oct-2025	901297-74-870	MO	64836
27-Oct-2015	27-Oct-2025	037915-01-340	MO	65721
27-Oct-2015	27-Oct-2025	680142-83-152	MO	64844
28-Oct-2015	28-Oct-2025	803303-27-709	MO	65785
04-Nov-2015	04-Nov-2025	986301-07-194	MO	65707
04-Nov-2015	04-Nov-2025	986301-07-988	MO	65707
06-Nov-2015	06-Nov-2025	109949-64-648	MO	64801
06-Nov-2015	06-Nov-2025	129682-19-200	MO	65653
06-Nov-2015	06-Nov-2025	493994-58-956	MO	65672
10-Nov-2015	10-Nov-2025	279627-83-062	MO	64801
13-Nov-2015	13-Nov-2025	046413-76-586	MO	65613
16-Nov-2015	16-Nov-2025	146292-03-241	MO	65653
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08-Sep-2017	08-Sep-2017	146842-01-792	MO	65613
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19-Sep-2017	19-Sep-2017	050233-92-273	MO	65668
19-Sep-2017	19-Sep-2017	662912-50-0	MO	64865
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25-Sep-2017	25-Sep-2017	997139-52-505	MO	65610
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26-Sep-2017	26-Sep-2017	123965-85-893	MO	64834
26-Sep-2017	26-Sep-2017	168693-97-166	MO	64748
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28-Sep-2017	28-Sep-2017	994346-59-050	MO	65767
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26-Apr-2018	26-Apr-2028	220465-20-398	MO	65738
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04-May-2018	04-May-2028	013250-62-237	MO	65672

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31-May-2018	31-May-2028	482088-30-235	MO	65653
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29-Jun-2018	29-Jun-2028	131639-94-137	MO	65653
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23-Aug-2018	23-Aug-2028	106462-94-966	MO	65648
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28-Aug-2018	28-Aug-2028	639975-40-698	MO	64870
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29-Aug-2018	29-Aug-2028	365825-56-538	MO	65631

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27-Sep-2018	27-Sep-2028	459105-02-222	MO	64836
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27-Sep-2018	27-Sep-2028	764377-34-151	MO	65714
27-Sep-2018	27-Sep-2028	955014-84-173	MO	64801
28-Sep-2018	28-Sep-2028	553309-30-477	MO	65738
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15-Oct-2018	15-Oct-2028	787868-11-086	MO	64866
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16-Oct-2018	16-Oct-2028	325829-05-787	MO	64836
16-Oct-2018	16-Oct-2028	344487-62-862	MO	64850
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17-Oct-2018	17-Oct-2028	175126-12-384	MO	64870
17-Oct-2018	17-Oct-2028	720307-91-357	MO	64801
17-Oct-2018	17-Oct-2028	938668-44-438	MO	64801
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19-Oct-2018	19-Oct-2028	436828-87-767	MO	65661
22-Oct-2018	22-Oct-2028	093351-30-438	MO	65648
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22-Oct-2018	22-Oct-2028	865720-03-837	MO	65738
22-Oct-2018	22-Oct-2028	871321-10-439	MO	64884
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24-Oct-2018	24-Oct-2028	363647-81-429	MO	65770
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24-Oct-2018	24-Oct-2028	888125-27-678	MO	65604
24-Oct-2018	24-Oct-2028	935629-32-026	MO	64755
25-Oct-2018	25-Oct-2028	066156-47-706	MO	64804

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25-Oct-2018	25-Oct-2028	822221-47-439	MO	64836
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30-Oct-2018	30-Oct-2028	685787-61-259	MO	65721
31-Oct-2018	31-Oct-2028	169981-13-485	MO	65604
31-Oct-2018	31-Oct-2028	889455-30-812	MO	64748
01-Nov-2018	01-Nov-2028	547873-80-431	MO	65708
02-Nov-2018	02-Nov-2028	239516-95-974	MO	64870
03-Nov-2018	03-Nov-2028	001710-08-295	MO	65613
03-Nov-2018	03-Nov-2028	431791-93-694	MO	65622
03-Nov-2018	03-Nov-2028	681089-29-579	MO	65613
03-Nov-2018	03-Nov-2028	955498-37-033	MO	65613
03-Nov-2018	03-Nov-2028	965861-39-641	MO	65613
05-Nov-2018	05-Nov-2028	695077-39-630	MO	65721
05-Nov-2018	05-Nov-2028	761276-90-825	MO	65712
05-Nov-2018	05-Nov-2028	801899-35-121	MO	64870
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06-Nov-2018	06-Nov-2028	456896-99-408	MO	64804
06-Nov-2018	06-Nov-2028	804401-12-611	MO	64804
07-Nov-2018	07-Nov-2028	223571-47-071	MO	64804
07-Nov-2018	07-Nov-2028	294908-65-723	MO	65613
07-Nov-2018	07-Nov-2028	412274-57-660	MO	64836
07-Nov-2018	07-Nov-2028	827236-49-024	MO	65616
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09-Nov-2018	09-Nov-2028	471699-03-987	MO	64834
09-Nov-2018	09-Nov-2028	533715-23-121	MO	64850
09-Nov-2018	09-Nov-2028	569326-38-313	MO	65781
09-Nov-2018	09-Nov-2028	766687-99-210	MO	64865
09-Nov-2018	09-Nov-2028	780927-51-834	MO	64801
09-Nov-2018	09-Nov-2028	839118-70-025	MO	64855
13-Nov-2018	13-Nov-2028	052296-22-945	MO	65605
14-Nov-2018	14-Nov-2028	003700-55-738	MO	65648
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14-Nov-2018	14-Nov-2028	236735-15-371	MO	65668
14-Nov-2018	14-Nov-2028	315642-12-237	MO	65617
14-Nov-2018	14-Nov-2028	472117-23-574	MO	65757
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14-Nov-2018	14-Nov-2028	989729-95-849	MO	64801
15-Nov-2018	15-Nov-2028	596418-90-726	MO	65656

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16-Nov-2018	16-Nov-2028	964360-53-376	MO	65616
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19-Nov-2018	19-Nov-2028	394349-82-489	MO	64850
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26-Nov-2018	26-Nov-2028	583919-05-573	MO	64801
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29-Dec-2018	29-Dec-2028	916453-41-117	MO	65616
02-Jan-2019	02-Jan-2029	492109-80-811	MO	64836
02-Jan-2019	02-Jan-2029	782059-56-624	MO	65613
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07-Jan-2019	07-Jan-2029	572763-50-225	MO	65737
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23-Jan-2019	23-Jan-2029	236610-30-713	MO	65610



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24-Jan-2019	24-Jan-2029	034590-74-071	MO	65613
24-Jan-2019	24-Jan-2029	087101-28-121	MO	65605
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24-Jan-2019	24-Jan-2029	174529-77-214	MO	65721
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26-Jan-2019	26-Jan-2029	848996-92-707	MO	65672
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31-Jan-2019	31-Jan-2029	916023-52-010	MO	65738
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06-Mar-2019	06-Mar-2029	018666-26-790	MO	64870
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12-Mar-2019	12-Mar-2029	908509-43-982	MO	65605
13-Mar-2019	13-Mar-2029	443986-35-998	MO	65616
13-Mar-2019	13-Mar-2029	978704-21-487	MO	65714
14-Mar-2019	14-Mar-2029	000131-71-122	MO	65605
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23-Mar-2019	23-Mar-2029	696669-10-735	MO	65616
26-Mar-2019	26-Mar-2029	069621-11-572	MO	65753
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27-Mar-2019	27-Mar-2029	539120-12-296	MO	65605
28-Mar-2019	28-Mar-2029	226566-83-163	MO	64801
28-Mar-2019	28-Mar-2029	245351-82-261	MO	64836
28-Mar-2019	28-Mar-2029	363666-63-932	MO	65732
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36	12.91	11.83416667	
36	8	6.666666667	
36	6	5	
36	34.12	28.43333333	
36	16.53	13.775	
36	20.71	17.25833333	
36	9.75	8.125	
36	3.6	3	
36	10.22	8.516666667	
36	8.18	6.816666667	
36	11.83	9.858333333	
36	3.73	3.108333333	
36	36.64	30.53333333	
36	15.5	12.91666667	
36	17.89	14.90833333	
36	20.11	16.75833333	
36	6.15	5.125	

36	4	3.333333333	
36	10.8	9	
36	16	13.33333333	
36	7.22	6.016666667	
36	11.19	9.325	
36	24.42	20.35	
36	12.45	10.375	
36	9.6	8	
36	29.63	24.69166667	
36	15.79	13.15833333	
36	20.55	17.125	
36	31.88	26.56666667	
36	8.93	7.441666667	
36	10.53	8.775	
36	23.3	19.41666667	
36	15.54	12.95	
36	22.6	18.83333333	
36	5.4	4.5	
36	28.77	23.975	
36	12.94	10.78333333	
36	20.53	15.3975	
36	12.22	9.165	
36	19.5	14.625	
36	22.2	16.65	
36	18.53	13.8975	
36	12.86	9.645	
36	9.1	6.825	
36	26.45	19.8375	
36	16.56	12.42	
36	20.33	15.2475	
36	2.01	1.5075	
36	0	0	
36	10.32	7.74	
37	33.15	24.8625	691.9766667 N3553AGG37
37	13.45	10.0875	
37	11.52	8.64	
37	14.4	10.8	
37	10.9	8.175	
37	29	21.75	
37	27.23	20.4225	
37	13.16	9.87	
37	14.69	11.0175	
37	10.3	7.725	
37	9.05	6.7875	
37	10.89	8.1675	
37	20.4	15.3	
37	7.46	5.595	

37	20.84	15.63
37	22.76	17.07
37	23.02	17.265
37	9.84	7.38
37	13.51	9.006666667
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37	12.12	8.08
37	12.94	8.626666667
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37	14.2	9.466666667
37	7.75	5.166666667
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37	37.16	24.773333333
37	11.82	7.88
37	32.01	21.34
37	13.6	9.066666667
37	21	14
37	19.4	12.933333333
37	15	10
37	5.79	3.86
37	7.98	5.32
37	22.58	15.053333333
37	11.22	7.48
37	12.11	8.073333333
37	5.05	3.366666667
37	9.4	6.266666667
37	9.47	6.313333333
37	17.5	11.66666667
37	12.6	8.4
37	9.81	6.54
37	9.61	6.406666667
37	9.5	6.333333333
37	0	0
37	19.96	13.30666667
37	8.26	5.506666667
37	17.2	11.46666667
37	31.02	20.68
37	8.6	5.733333333
37	18.78	10.955
37	6.37	3.715833333
37	9.59	5.594166667
37	9.3	5.425
37	10.58	6.171666667
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37	21.8	12.71666667
37	16.13	9.409166667
37	5.87	3.424166667

37	25.28	14.74666667	
37	14.48	8.446666667	
37	8.25	4.8125	
37	8.74	5.098333333	
37	21.66	12.635	
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37	10.37	6.049166667	
37	20.1	11.725	
38	30.85	17.99583333	461.3791667 N3554AGG38
38	18.99	11.0775	
38	24.38	14.22166667	
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38	11.3	6.591666667	
38	14.41	8.405833333	
38	18.06	10.535	
38	23.2	13.53333333	
38	6.51	3.255	
38	7.3	3.65	
38	20.86	10.43	
38	9.99	4.995	
38	21.53	10.765	
38	7.45	3.725	
38	16	8	
38	19.39	9.695	
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38	20.1	10.05	
38	2.5	1.25	
38	26.81	13.405	
38	9.2	4.6	
38	12	6	
38	14.2	7.1	
38	12.5	6.25	
38	9.54	4.77	
38	5.83	2.915	
38	13.93	6.965	
38	4.48	2.24	
38	5.9	2.95	
38	11.84	5.92	
38	33.08	13.78333333	
38	33.1	13.79166667	
38	7.4	3.083333333	
38	9.7	4.041666667	
38	16.74	6.975	
38	8.74	3.641666667	
38	13.35	5.5625	
38	14.1	5.875	

38	13.16	5.483333333	
38	16.23	6.7625	
38	35.66	14.85833333	
38	22.51	9.379166667	
38	1.6	0.666666667	
38	22.2	9.25	
38	15.7	6.541666667	
38	15.4	6.416666667	
38	13.06	5.441666667	
38	9.33	3.8875	
38	6.9	2.875	
38	8.8	3.666666667	
38	33.65	11.21666667	
38	32.61	10.87	
38	15.75	5.25	
38	15.5	5.166666667	
38	14.04	4.68	
38	4.6	1.533333333	
38	14.3	4.766666667	
38	19.03	6.343333333	
38	36.74	12.24666667	
38	9.8	3.266666667	
38	5.4	1.8	
38	10.99	3.663333333	
38	23.88	7.96	
38	15.5	5.166666667	
38	9.01	3.003333333	
38	22.6	7.533333333	
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39	14.8	4.933333333	
39	11	3.666666667	
39	11.95	3.983333333	
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39	17.8	5.933333333	
39	21.9	7.3	
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39	20.9	5.225	
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39	10.5	2.625	
39	16.75	4.1875	

39	10.2	2.55
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39	7.1	1.775
39	8.3	2.075
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39	13.9	3.475
39	10.9	2.725
39	19	4.75
39	6.7	1.675
39	11.8	2.95
39	10.4	2.6
39	17.6	2.933333333
39	20.9	3.483333333
39	13.3	2.216666667
39	11.75	1.958333333
39	13.03	2.171666667
39	18.9	3.15
39	36.83	6.138333333
39	9.2	1.533333333
39	23.6	3.933333333
39	8.7	1.45
39	11.26	0.938333333
39	20.3	1.691666667
39	11.8	0.983333333
39	11	0.916666667
39	14.59	1.215833333
39	20.49	1.7075
39	5.5	0.458333333
39	11.8	0.983333333
39	15.2	1.266666667
39	16.6	1.383333333
39	7.2	0.6
39	12.93	1.0775
39	22.71	1.8925
39	16.38	1.365
39	10.8	0.9
39	12.1	1.008333333

40636.48442

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY

P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 12

Canceling P.S.C. Mo. No. \_\_\_\_\_ Sec. \_\_\_\_\_ Original Sheet No. \_\_\_\_\_

For ALL TERRITORY

NET METERING RIDER  
RIDER NM

AVAILABILITY:

Electric service is available under this schedule at points on the Company's existing distribution facilities located within its service area for customers operating renewable fuel source generators.

Applicable to Customer-Generators with a Company approved interconnection agreement. This schedule is not applicable where the Customer's electrical generating system exceeds 100 kW.

The net metering service shall be available to Customer-Generators on a first-come, first-serve basis until the total rated generating capacity of net metering systems equals 5% of the Company's single-hour peak load during the previous year. Resale electric service will not be supplied under this schedule.

DEFINITIONS:

Customer-Generator:

The owner or operator of a qualified electric energy generation unit that meets all of the following criteria:

- a. Is powered by a renewable energy resource;
- b. Has an electrical generating system with a capacity of not more than one hundred fifty kilowatts;
- c. Is located on a premises owned, operated, leased, or otherwise controlled by the Customer-Generator;
- d. Is interconnected and operated in parallel phase and synchronization with the Company;
- e. Is intended primarily to offset part or all of the Customer-Generator's own electrical energy requirements;
- f. Meets all applicable safety, performance, interconnection, and reliability standards established by the National Electrical Code, the National Electrical Safety Code, the Institute of Electrical and Electronic Engineers and any local governing authorities; and
- g. Contains a mechanism that automatically disables the unit and interrupts the flow of electricity back onto the Company's electricity lines in the event that the service to the Customer-Generator is interrupted.

Renewable Energy Resources:

Electrical energy produced from wind, solar thermal sources, hydroelectric sources, photovoltaic cells and panels, fuel cells using hydrogen produced by ones of the above-named electrical energy sources, and other sources of energy that become available, and are certified as renewable by the Missouri Department of Natural Resources or the Missouri Department of Economic Development's Division of Energy.

CHARACTER OF SERVICE:

Alternating current, 60 cycles, at the voltage and phase of the Company's established secondary distribution system serving the Customer-Generator's premise.

BILLING AND PAYMENT:

The Company shall render a bill for net consumption at approximately 30-day intervals based on the Company's regular tariff schedules as on file with the Missouri Public Service Commission. Net consumption is defined as the kWh supplied by the Company to the Customer-Generator minus kWh supplied by the Customer-Generator and returned to the Company's grid during the billing month. Any net consumption shall be valued monthly as follows

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For ALL TERRITORY

NET METERING RIDER  
RIDER NM

**BILLING AND PAYMENT (continued):**

To the extent the net consumption is positive (i.e. Customer-Generator took more kWh from the Company during the month than Customer-Generator produced), the eligible Customer-Generator will be billed in accordance with the Customer-Generator's otherwise applicable standard rate for Customer Charges, Demand Charges, and Energy Charges (for the net consumption).

To the extent the net consumption is negative (i.e. Customer-Generator produced more kWh during the month than the Company supplied), the Customer-Generator will be credited in accordance with the Company's bi-annually calculated avoided fuel cost of the net energy (kWh) delivered to the Company. With the exception of the Energy Charge, all other applicable standard rate charges shall apply.

**PURCHASED RATE:**

Summer Season, per kWh.....	\$	0.0250
Winter Season, per kWh.....	\$	0.0262

The Summer Season will be the four months of June through September, and the Winter Season will be the eight months of October through May.

To the extent the net consumption is zero (i.e. Customer-Generator produced the same kWh during the month as supplied by the Company), the Customer-Generator will be Minimum billed in accordance with the eligible Customer-Generator's otherwise applicable standard rate.

**TERMS AND CONDITIONS:**

1. The Company will supply, own and maintain all necessary meters and associated equipment utilized for billing. If the Company's metering equipment at the Customer Generator's premise does not have the capability of measuring both the net energy produced and the net energy consumed, the Customer shall reimburse the Company for the cost to purchase and install sufficient metering. In addition, and for purposes of monitoring Customer generation and load, the Company may install at its expense, load research metering. The Customer shall supply, at no expense to the Company, a suitable location for meters and associated equipment used for billing and for load research. Such equipment shall be accessible at all times to Company personnel.
2. The Company shall have the right to require the Customer, at certain times and as electric operating conditions warrant, to limit the production of electrical energy from the generating facility to an amount no greater than the load at the Customer's facility of which the generating facility is a part.
3. The Customer shall furnish, install, operate and maintain in good order and repair without cost to the Company such relays, locks and seals, breakers, automatic synchronizers, disconnecting devices, and other control and protective devices as required by the NEC, NESC, IEEE or UL as being required as suitable for the operation of the generator in parallel with the Company's system.
4. The disconnect switch shall be under the exclusive control of the Company. The manual switch must have the capability to be locked out by Company personnel to isolate the Company's facilities in the event of an electrical outage on the Company's transmission and distribution facilities serving the Customer. This isolating device shall also serve as a means of isolation for the Customer's equipment during any customer maintenance activities, routine outages or emergencies. The Company shall give notice to the Customer before a manual switch is locked or an isolating device is used, if possible; and otherwise shall give notice as soon as practicable after locking or isolating the Customer's facilities.
5. The Customer may be required to reimburse the Company for any equipment or facilities required solely as a result of the installation by the Customer of generation in parallel with the Company's Service. This requirement is limited to equipment or facilities installed by the Company in excess of those required of the Company by the NEC, NESC, IEEE or UL.
6. The Customer shall notify the Company prior to the initial energizing and start-up testing of the Customer-owned generator, and the Company shall have the right to have a representative present at said test.

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February 26, 2021

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THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY

P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 14

Canceling P.S.C. Mo. No. \_\_\_\_\_ Sec. \_\_\_\_\_ Original Sheet No. \_\_\_\_\_

For ALL TERRITORY

NET METERING RIDER  
RIDER NM

TERMS AND CONDITIONS (continued):

- 7. If harmonics, voltage fluctuations, or other disruptive problems on the utility's system are directly attributable to the operation of the Customer's system, such program(s) shall be corrected at the Customer's expense.
- 8. No Customer's generating system shall damage the Company's system or equipment or present an undue hazard to Company personnel.
- 9. The Company requires an Interconnection Application/Agreement for net metering (see copy below) for conditions related to technical and safety aspects of parallel generation.
- 10. Service under this schedule is subject to the Company's Rules and Regulations on file with the Missouri Public Service Commission and any subsequently approved and in effect during the term of this service.

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ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

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THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY

P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 15

Canceling P.S.C. Mo. No. \_\_\_\_\_ Sec. \_\_\_\_\_ Original Sheet No. \_\_\_\_\_

For ALL TERRITORY

NET METERING RIDER  
RIDER NM

**INTERCONNECTION APPLICATION /AGREEMENT FOR NET METERING SYSTEMS  
WITH CAPACITY OF ONE HUNDRED  
KILOWATTS (150 kW) OR LESS**

The Empire District Electric Company  
602 South Joplin Avenue  
Joplin, Missouri, 64802

**For Customers Applying for Interconnection:**

If you are interested in applying for interconnection to The Empire District Electric Company’s (Empire) electrical system, you should first contact Empire and ask for information related to interconnection of parallel generation equipment to Empire’s system and you should understand this information before proceeding with this Application.

If you wish to apply for interconnection to Empire’s electrical system, please complete sections A, B, C and D, and attach the plans and specifications, including, but not limited to, describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the “Customer-Generator’s System”) and submit them to Empire at the address above. Empire will provide notice of approval or denial within thirty (30) days of receipt by Empire for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by Empire for Customer-Generators of greater than ten kilowatts (10 kW). If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and Empire, it shall become a binding contract and shall govern your relationship with Empire.

**For Customers Who Have Received Approval of  
Customer-Generator System Plans and Specifications:**

After receiving approval of your Application, it will be necessary to construct the Customer-Generator System in compliance with the plans and specifications described in the Application, complete sections E and F of this Application, and forward this Application to Empire for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to Empire’s system, the Customer-Generator will furnish Empire a certification from a qualified professional electrician or engineer that the installation meets the plans and specification described in the application. If a local Authority Having Jurisdiction (AHJ) requires permits or certifications for construction or operation of the qualified generation unit, a customer generator must show the permit number and approval certification to Empire prior to interconnection. If the application for interconnection is approved by Empire and the Customer-Generator does not complete the interconnection within one (1) year after receipt of notice of the approval, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.

Within 21 days of when the customer-generator completes submission of all required post construction documentation, including sections E & F, other supporting documentation and local AHJ inspection approval (if applicable) to the electric utility, the electric utility will make any inspection of the customer-generators interconnection equipment or system it deems necessary and notify the customer generator:

1. That the net meter has been set and parallel operation by customer-generator is permitted; or
2. That the inspection identified no deficiencies and the net meter installation is pending; or
3. That the inspection identified no deficiencies and the timeframe anticipated for the electric utility to complete all required system or service upgrades and install the meter; or
4. Of all deficiencies identified during the inspection that need to be corrected by the customer-generator before parallel operation will be permitted; or
5. Of any other issue(s), requirement(s), or condition(s), impacting the installation of the net meter or the parallel operation of the system.

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THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY

P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 15a

Canceling P.S.C. Mo. No. \_\_\_\_\_ Sec. \_\_\_\_\_ Original Sheet No. \_\_\_\_\_

For ALL TERRITORY

NET METERING RIDER  
RIDER NM

**For Customers Who Are Installing Solar Systems:**

Customer-Generators who are Missouri electric utility retail account holders will receive a solar rebate, if available, based on the capacity stated in the application, or the installed capacity of the Customer-Generator System if it is lower, if the following requirements are met:

- a. Empire must have confirmed the Customer-Generator's System is operational; and
- b. Sections H and I of this Application must be completed.

The amount of the rebate will be based on the system capacity measured in direct current. The rebate will be based on the schedule below up to a maximum of 25,000 watts (25kW) for residential customers, and up to a maximum of 150,000 watts (150 kW) for non-residential customers.

- \$2.00 per watt for systems operational on or before June 30, 2014;
- \$1.50 per watt for systems operational between July 1, 2014 and June 30, 2015;
- \$1.00 per watt for systems operational between July 1, 2015 and June 30, 2016;
- \$0.50 per watt for systems operational between July 1, 2016 and June 30, 2019;
- \$0.25 per watt for systems operational between July 1, 2019 and December 31, 2023;
- \$0.00 per watt for systems operational between December 31, 2023.;

**For Customers Who Are Assuming Ownership or Operational Control of an Existing Customer-Generator System:**

If no changes are being made to the existing Customer-Generator System, complete sections A, D and F of this Application/Agreement and forward to Empire at the address above. Empire will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Empire if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

For ALL TERRITORY

**NET METERING RIDER  
RIDER NM**

**A. Customer-Generator's Information**

Name on Empire's Electric Account: \_\_\_\_\_  
Service/Street Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Mailing Address (if different from above): \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Email address (if available): \_\_\_\_\_  
Electric Account Holder Contact Person: \_\_\_\_\_  
Daytime Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
Emergency Contact Phone: \_\_\_\_\_  
Empire Account No. (from Utility Bill): \_\_\_\_\_  
If account has multiple meters, provide the meter number to which generation will be connected: \_\_\_\_\_  
Empire's Account No. (from Utility Bill): Shall be inserted at the top of each page.

**B. Customer-Generator's System Information**

Manufacturer Name Plate Power Rating: \_\_\_\_\_ kW AC  DC  (check box)  
Voltage: \_\_\_\_\_ Volts  
System Type: Wind  Fuel Cell  Solar Thermal  Photovoltaic  Hydroelectric  Other  (If other describe on line below)  
Inverter/Interconnection Equipment Manufacturer: \_\_\_\_\_  
Inverter/Interconnection Equipment Model No.: \_\_\_\_\_  
Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Distance from Meter: \_\_\_\_\_  
Certify that the disconnect switch will be located adjacent to the Customer-Generator's electric service meter or explain where and why an alternative location of disconnect switch is being requested: \_\_\_\_\_

Existing Electrical Service Capacity: \_\_\_\_\_ Amperes Voltage: \_\_\_\_\_ Volts  
Service Character: Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_  
Total capacity of existing Customer-Generator System (if applicable): \_\_\_\_\_ kW

**System Plans, Specifications, and Wiring Diagram must be attached for a valid application.**

**C. Installation Information / Hardware and Installation Compliance**

Company Installing System: \_\_\_\_\_  
Contact Person of Company Installing System: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Contractor's License No. (if applicable): \_\_\_\_\_  
Approximate Installation Date: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Daytime Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
Person or Agency Who Will Inspect/Certify Installation: \_\_\_\_\_

The Customer-Generator's proposed System hardware complies with all applicable National Electric Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE), Underwriters Laboratories (UL), requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1703, UL 1741, and IEEE 1547. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of Empire. The proposed System has a lockable, visible AC disconnect device, accessible at all times to Empire personnel and switch is located adjacent to the Customer-Generator's electric service meter (except in cases where the Company has approved an alternate location). The System is only required to include one lockable, visible disconnect device, accessible to Empire. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement. The Customer-Generator's proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to Empire's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Empire's electrical system is not energized or operating normally.

For ALL TERRITORY

**NET METERING RIDER  
RIDER NM**

If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to Empire’s electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): \_\_\_\_\_ Date: \_\_\_\_\_

Name (Print): \_\_\_\_\_

**D. Additional Terms and Conditions**

In addition to abiding by Empire’s other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

**1) Operation / Disconnection**

If it appears to Empire, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator ‘s System is adversely affecting safety, power quality or reliability of Empire’s electrical system, Empire may immediately disconnect and lock-out the Customer-Generator’s System from Empire’s electrical system. The Customer-Generator shall permit Empire’s employees and inspector’s reasonable access to inspect, test, and examine the Customer-Generator’s System.

**2) Liability**

Liability insurance is not required for Customer-Generators of ten kilowatts (10 kW) or less. For generators greater than ten kilowatts (10 kW), the Customer Generator agrees to carry no less than one hundred thousand dollars (\$100,000) of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator’s System. Insurance may be in the form of an existing policy or an endorsement on an existing policy. Customer-Generators, including those whose systems are ten kilowatts (10 kW) or less, may have legal liabilities not covered under their existing insurance policy in the event the Customer-Generator’s negligence or other wrongful conduct causes personal injury (including death), damage to property, or other actions and claims.

**3) Metering and Distribution Costs**

A Customer-Generator’s facility shall be equipped with sufficient metering equipment that can measure the net amount of electrical energy produced or consumed by the Customer-Generator. If the Customer-Generator’s existing meter equipment does not meet these requirements or if it is necessary for Empire to install additional distribution equipment to accommodate the Customer-Generator’s facility, the Customer-Generator shall reimburse Empire for the costs to purchase and install the necessary additional equipment. At the request of the Customer-Generator, such costs may be initially paid for by Empire, and any amount up to the total costs and a reasonable interest charge may be recovered from the Customer-Generator over the course of up to twelve (12) billing cycles. Any subsequent meter testing, maintenance, or meter equipment change necessitated by the Customer-Generator shall be paid for by the Customer-Generator.

**4) Ownership of Renewable Energy Credits or Renewable Energy Certificates (RECs)**

RECs created through the generation of electricity by the Customer-Owner are owned by the Customer-Generator; however, if the Customer-Generator receives a solar rebate, the Customer-Generator transfers to Empire all right, title, and interest in and to the RECs associated with the new or expanded solar electric system that qualified the Customer-Generator for the solar rebate for a period of ten (10) years from the date the electric utility confirms the solar electric system is installed and operational.

**5) Energy Pricing and Billing**

The net electric energy delivered to the Customer-Generator shall be billed in accordance with Empire’s Applicable Rate Schedules (Tariff Schedule NM). The value of the net electric energy delivered by the Customer-Generator to Empire shall be credited in accordance with the net metering rate schedule(s) (Tariff Schedule NM). The Customer-Generator shall be responsible for all other bill components charged to similarly situated customers.

Net electrical energy measurement shall be calculated in the following manner:

- (a) For a Customer Generator, a retail electric supplier shall measure the net electrical energy produced or consumed during the billing period in accordance with normal metering practices for customers in the same rate class, either by employing a single, bidirectional meter that measures the amount of electrical energy produced and consumed, or by employing multiple meters that separately measure the Customer-Generator’s consumption and production of electricity;

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Canceling P.S.C. Mo. No. \_\_\_\_\_ Sec. \_\_\_\_\_ Original Sheet No. \_\_\_\_\_

For ALL TERRITORY

**NET METERING RIDER  
RIDER NM**

- (b) If the electricity supplied by the supplier exceeds the electricity generated by the Customer-Generator during a billing period, the Customer-Generator shall be billed for the net electricity supplied by the supplier in accordance with normal practices for customers in the same rate class;
- (c) If the electricity generated by the Customer-Generator exceeds the electricity supplied by the supplier during a billing period, the Customer-Generator shall be billed for the appropriate customer charges as specified by the applicable Customer-Generator rate schedule for that billing period and shall be credited an amount for the excess kilowatt-hours generated during the billing period at the net metering rate identified in Empire's tariff filed at the Public Service Commission, with this credit applied to the following billing period; and
- (d) Any credits granted by this subsection shall expire without any compensation at the earlier of either twelve (12) months after their issuance, or when the Customer-Generator disconnects service or terminates the net metering relationship with the supplier.

**6) Terms and Termination Rights**

This Agreement becomes effective when signed by both the Customer-Generator and Empire, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving Empire at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator's System from parallel operation with Empire's system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and Empire. This agreement may also be terminated by approval of the Commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

**7) Transfer of Ownership**

If operational control of the Customer-Generator's System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. Empire shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator's System. The person or persons taking over the operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Empire before the existing Customer-Generator System can remain interconnected with Empire's electrical system. The new Application/Agreement will only need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Consumer-Generator System completely understand the provisions of this Application/Agreement and agrees to them. If no changes are being made to the Customer-Generator's System, completing sections A, D and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the Customer-Generator System, Empire will assess no charges or fees for this transfer. Empire will review the new Application/Agreement and shall approve such, within fifteen (15) days if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. Empire will then complete section G and forward a copy of the completed Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with Empire's electrical system. If any changes are planned to be made in the existing Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics, then the Customer-Generator shall submit to Empire a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

**8) Dispute Resolution**

If any disagreements between the Customer-Generator and Empire arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE September 16, 2020  
ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

FILED  
Missouri Public  
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P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 16c

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For ALL TERRITORY

**NET METERING RIDER  
RIDER NM**

**9) Testing Requirement**

IEEE 1547 requires periodic testing of all interconnection related protective functions. The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator's net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from Empire's electrical system. Disconnecting the net metering unit from Empire's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by Empire, shall provide a copy of the test results to Empire. If the Customer-Generator is unable to provide a copy of the test results upon request, Empire shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to Empire, the results of a test. If the Customer-Generator's equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator's System from Empire's system. If the Customer-Generator does not provide results of a test to Empire within thirty (30) days of receiving a request from Empire or the results of the test provided to Empire show that the Customer-Generator's net metering unit is not functioning correctly, Empire may immediately disconnect the Customer-Generator's System from Empire's system. The Customer-Generator's System shall not be reconnected to Empire's electrical system by the Customer-Generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

I have read, understand, and accept the provisions of Section D, subsections 1 through 9 of this Application/Agreement.

Printed Name (Customer-Generator): \_\_\_\_\_

Signed (Customer-Generator): \_\_\_\_\_ Date: \_\_\_\_\_

Note: Must be name and signature of Empire Account Holder

**E. Electrical Inspection**

If a local Authority Having Jurisdiction (AHJ) governs permitting/inspection of project:

Authority Having Jurisdiction (AHJ): \_\_\_\_\_

Permit Number: \_\_\_\_\_

**Applicable to all installations:**

The Customer-Generator System referenced above satisfies all requirements noted in Section C.

Inspector Name (Print): \_\_\_\_\_

Inspector Certification: Licensed Engineer in Missouri \_\_\_\_\_ Licensed Electrician in Missouri \_\_\_\_\_

License No. \_\_\_\_\_ Issuing Authority \_\_\_\_\_

Signed (Inspector): \_\_\_\_\_ Date: \_\_\_\_\_

**F. Customer-Generator Acknowledgement**

I am aware if the Customer-Generator System installed on my premises and I have been given warranty information and/or an operational manual for that system. Also, I have been provided with a copy of Empire's parallel generation tariff or rate schedule (as applicable) and interconnection requirements. I am familiar with the operation of the Customer-Generator System.

I agree to abide by the terms of this Application/Agreement and I agree to operate and maintain the Customer-Generator System in accordance with the manufacturer's recommended practices as well as Empire's interconnection standards. If, at any time and for any reason, I believe that the Customer-Generator System is operating in an unusual manner that may result in any disturbances on Empire's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Empire's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Empire no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics. I acknowledge that any such modifications will require submission of a new Application/Agreement to Empire.

I agree not to operate the Customer-Generator System in parallel with Empire's electrical system until this Application/Agreement has been approved by Empire.

System Installation Date: \_\_\_\_\_

Printed Name (Customer-Generator): \_\_\_\_\_

Signed (Customer-Generator): \_\_\_\_\_ Date: \_\_\_\_\_

**G. Utility Application Approval (completed by The Empire District Electric Company)**

Empire does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury due to malfunction of the Customer-Generator's System or the Customer-Generator's negligence.

This Application is approved by Empire on this \_\_\_\_\_ day of \_\_\_\_\_ (month). \_\_\_\_\_ (year).

Empire Representative Name (Print): \_\_\_\_\_

Signed Empire Representative: \_\_\_\_\_

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE September 16, 2020  
ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

**FILED**  
Missouri Public  
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For ALL TERRITORY

NET METERING RIDER  
RIDER NM

## MISSOURI SOLAR ELECTRIC REBATE APPLICATION

### H. 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

**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 OR provided before Empire authorizes the rebate payment:**

- 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

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

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE September 16, 2020 FILED

ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

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YE-2021-0041



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For ALL TERRITORY

NET METERING RIDER RIDER NM
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**I. 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 a minimum of (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 Empire in the amount of:

- \$2.00 per watt for systems operational on or before June 30, 2014;
- \$1.50 per watt for systems operational between July 1, 2014, and June 30, 2015;
- \$1.00 per watt for systems operational between July 1, 2015, and June 30, 2016;
- \$0.50 per watt for systems operational between July 1, 2016, and June 30, 2019;
- \$0.25 per watt for systems operational between July 1, 2019, and December 31, 2023;
- \$0.00 per watt for systems operational after December 31, 2023.

I understand an electric utility may, through its tariff, require applications for solar rebates to be submitted up to one hundred eighty-two (182) days prior to the applicable June 30 operational date for the solar rebate.

I understand that a maximum of 25 kilowatts of new or expanded system capacity will be eligible for a rebate for residential customers, and a maximum 150 kilowatts of new or expanded system capacity will be eligible for a rebate for non-residential customers.

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 I may receive an IRS Form related to my rebate amount. (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 **for a period of ten (10) years** from the date Empire confirmed that that System was installed and operational, and during this period, I may not claim credit for the SRECs under any environmental program or transfer or sell the SRECs to any other party.

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

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ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

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P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 16f

Canceling P.S.C. Mo. No. \_\_\_\_\_ Sec. \_\_\_\_\_ Original Sheet No. \_\_\_\_\_

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NET METERING RIDER  
RIDER NM

Disclaimer: Possible Future Rules and/or Rate Changes  
Affecting Your Photovoltaic ("PV") System

1. Your PV system is subject to the Commission's current rates, rules, and regulations. The Missouri Public Service Commission ("Commission") may alter its rules and regulations and/or change rates in the future. If this occurs, your PV system is subject to those changes, and you will be responsible for paying any future increases to electricity rates, charges, or service fees from the Company.
2. The Company's electricity rates, charges, and service fees are determined by the Commission and are subject to change based upon the decisions of the Commission. These future adjustments may positively or negatively impact any potential savings or the value of your PV system.
3. Any future electricity rate projections which may be presented to you are not produced, analyzed, or approved by the Company or the Commission. They are based on projections formulated by external third parties not affiliated with the Company or the Commission.

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

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

DATE OF ISSUE August 17, 2020  
ISSUED BY Sheri Richard, Director, Rates and Regulatory Affairs, Joplin, MO

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Missouri Public  
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ER-2019-0374; EN-2021-0038;  
YE-2021-0041

**Highly CONFIDENTIAL**

**ATTACHMENT 8:**  
**AFFIDAVIT OF COMPLIANCE WITH 2020**  
**COMPLIANCE PLAN**

The Empire District Electric Company  
Liberty Utilities  
2020 Annual RES Compliance Report  
HIGHLY CONFIDENTIAL 20 CSR 4240-2.135(4)

On April 15, 2020, The Empire District Electric Company filed a Compliance Plan outlining our plan to comply with the Renewable Energy Standard for the years of 2020-2022.

In accordance with that document, EDE stated that the company would utilize the non-solar generation from a contract with Elk River Windfarm and generation from the Ozark Beach Hydroelectric facility owned by EDE. EDE retired 364,254 vintage 2019 and 2020 RECs from the Ozark Beach facility and the Elk River Windfarm in order to meet the 2020 non-solar compliance requirements.

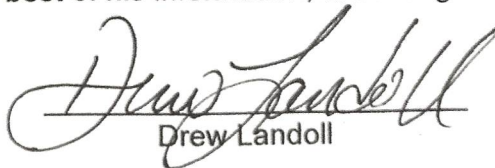
EDE retired 34,042 customer generated SRECs for compliance with the solar requirement.

The 2021 RES Compliance Plan states that EDE will continue to utilize non-solar RECs generated by the Ozark Beach facility and the Elk River Wind Farm. RECs generated by the Cloud County Windfarm are not anticipated for compliance purposes. EDE will utilize solar SRECs from customer-generated sources for compliance. EDE may also use RECs from owned wind or solar generation for compliance in the future.

The total costs for meeting the 2020 annual Missouri RES are as follows:

Resource	Cost
Ozark Beach Generation	-0-
Solar Customer Generation Rebates	\$1,145,488
NAR Administration	\$19,932
RRI Calculations, Modeling	\$7,500
Elk River PPA, Compliance Portion	**\$ **

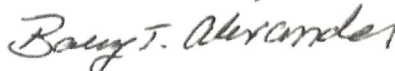
On this date, April 15<sup>th</sup> 2021, before me appeared Drew Landoll, to me personally known, who, being by me first duly sworn, states that he is Director, Strategic Projects, of the Empire District Electric Company and acknowledges that he has read the above and foregoing document and believes that the statements therein are true and correct to the best of his information, knowledge and belief.

  
Drew Landoll

State of MISSOURI  
County of JASPER

On this 15<sup>TH</sup> day of APRIL in the year 2021, before me, the undersigned notary public, personally appeared DREW LANDOLL, known to me to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged that he/she/they executed the same for the purposes therein contained. In witness whereof, I hereunto set my hand and official seal.

Notary Public



**BARRY T ALEXANDER**  
Notary Public - Notary Seal  
STATE OF MISSOURI  
Jasper County  
My Commission Expires Mar. 31, 2023  
Commission #19600177

**ATTACHMENT 9 and 3: RES RETAIL RATE IMPACT**

**2021 RES Retail Rate Impact (“RRI”) Filing**

The Empire District Electric Company – Liberty Utilities Central (“Liberty-Empire”) filed its most recent Missouri triennial Integrated Resource Plan compliance filing (“2019 IRP”) in June 2019 in File No. EO-2019-0049, consistent with 4 CSR 240-22. Liberty-Empire filed its 2020 IRP Annual Update compliance filing (“2020 IRP Annual Update”) in March 2020 in File No. EO-2020-0049. As of the writing of this 2021 RES RRI report, Liberty-Empire also plans to submit its 2021 IRP Annual Update compliance filing (“2021 IRP Annual Update”) in March 2021, consistent with 4 CSR 240-22.080(3). Liberty-Empire’s 2021 IRP Annual Update reviews the 2019 IRP preferred plan and the steps the Company has taken toward implementation since the filing of the 2019 IRP and of the 2020 IRP Annual Update. As further described in the 2021 IRP Annual Update, Liberty-Empire has taken significant steps toward implementing its 2019 IRP preferred plan and does not expect any notable changes to the plan at this time.

As a part of developing the 2021 IRP Annual Update, Liberty-Empire identified how the uncertain factors identified as critical in the 2019 IRP have changed since the filing of the 2021 IRP and of the 2020 IRP Annual Update. The identified critical uncertain factors were load; environmental standards and carbon prices; market power prices and fuel prices; and capital costs, transmission, and interest rates. In the 2021 IRP Annual Update, the critical uncertain factors were validated against the assumptions used in Liberty-Empire’s most recent and approved rolling six-year plan, which is internally referred to as the six-year budget and which is developed on an annual basis as a part of Liberty-Empire’s ongoing internal planning process. Liberty-Empire found that the values of the market power prices and fuel prices used in the latest six-year plan were lower than the 2019 IRP Base Case and slightly lower than the 2019 IRP Low Case, but not significantly enough to require re-modeling the IRP alternative plans in either the 2021 IRP Annual Update or in the 2021 RES filing. Additionally, the market power prices and fuel prices used in for the 2021 IRP Annual Update were developed for internal planning and budgeting purposes and do not represent a fundamental long-term view of the SPP market. Thus, Liberty-Empire did not update the PVRR results used for purposes of the RES RRI filing.

Liberty-Empire’s 2021 RES RRI analysis contained herein calculates the current year’s RRI and the RRI of the next ten (10) years per Section 5 of Missouri 4 CSR 240-20.100 (the “Rule”). According to the Rule, the RES RRI is determined by subtracting the total retail revenue requirement including an incremental *non-renewable* generation and purchased power portfolio from the total retail revenue requirement including an incremental *RES-compliant* generation and purchased power portfolio.

Consistent with the Rule, Liberty-Empire defined the non-renewable generation and purchased power portfolio (“Plan 4 – No RES”) as the utility’s existing generation and purchased power resource portfolio excluding all renewable resources, plus additional non-renewable resources sufficient to meet the utility’s needs on a least-cost basis for the next ten years. To calculate the total retail revenue requirement of the Plan 4 – No RES portfolio, Liberty-Empire removed the following renewables resources from the 2019 IRP preferred plan:

Resource Name	Resource Type	Year Removed	UCAP MW
Elk River Meridian Way	Wind	2020	31
Ozark Beach	Hydro	2020	16
Neosho Wind	Wind	2020	91
Community Solar	Solar	2021	0.5
2023 Utility-Scale Solar 2034 Utility-Scale Solar	Solar	2023 2034	50

Resource Name	Resource Type	Year Removed	UCAP MW
2027 Utility-Scale Solar Plus Storage	Solar + Storage	2027	30
2022 Distributed Solar Plus Storage	Solar + Storage	2022	44
2028 Distributed Solar Plus Storage		2028	
2032 Distributed Solar Plus Storage		2032	
2036 Distributed Solar Plus Storage		2036	
<b>Total</b>			262.5

To account for the 262.5 MW reduction in total accredited capacity and to maintain a minimum capacity margin of 12% over the modeling horizon, a 49 MW gas aeroderivative was added in 2020, a 148 MW gas aeroderivative was added in 2027, and a 49 MW gas aeroderivative was added in 2034.

Consistent with the Rule, Liberty-Empire defined the RES-compliant generation and purchased power portfolio (“Plan 4 – RES”) as the utility’s existing generation and purchased power resource portfolio, plus an amount of least-cost renewable resources sufficient to achieve RES standards, plus any additional non-renewable, least-cost resources needed to meet the utility’s needs for the next ten years. To calculate the total retail revenue requirement of the Plan 4 – RES portfolio, Liberty-Empire used the 2019 IRP preferred plan (Plan 4), which complies with this definition and includes renewable resources that meet the RES requirements set forth in the Rule. As required by Rule Section 5(C), rebates made during each calendar year were also included in the cost of generation from renewable energy resources.

Rule Section 5(B)4 states that the assumptions regarding projected renewable energy resource additions must utilize the most recent electricity utility resource planning analysis. As mentioned earlier in this report, and as described further in the 2021 IRP Annual Update filing, due to a relatively small magnitude of change in the values of the updated critical uncertain factors compared to the 2019 IRP, Liberty-Empire did not develop new fundamental commodity prices or re-model Plan 4 – No RES and Plan 4 – RES using market assumptions. Consistent with the Rule language, Liberty-Empire used market and fuel prices from its most recent electric utility resource planning analysis assumptions, which were taken from ABB’s 2018 Fall Midwest Power Reference Case. Consistent with the 2019 IRP, a 50% probability weighting was given to the no-carbon tax scenario and 50% to the carbon tax scenario.

Exhibit 1 includes the expected value of costs associated with carbon emissions used in this analysis. Exhibit 2 includes market prices for the SPP-KSMO market area with and without the impact of a carbon tax beginning in 2026.

*Exhibit 1: Expected Value of Carbon Tax (\$Nom/Short Ton)*

	Carbon Tax (\$Nom/Short Ton)		
	No Carbon - 50%	Carbon - 50%	Expected Value
2021	*-	-	-
2022	*-	-	-
2023	*-	-	-
2024	*-	-	-
2025	*-	-	-
2026	*-		*
2027	*-		*
2028	*-		*
2029	*-		*
2030	*-		*

The Empire District Electric Company – Liberty Utilities Central  
2021 RES RRI Filing 4 CSR 240-20.100  
PUBLIC VERSION

2031	*_		*
2032	*_		*
2033	*_		*
2034	*_		*
2035	*_		*
2036	*_		*
2037	*_		*
2038	*_		*
2039	*_		*
2040	*_		*

Exhibit 2 SPP-KSMO 7x24 Weighted Market Prices (Nom\$/MWh)

**Results:**

The following table shows the calculation for the average 10-year compliance spend over the 10-year period (2021-2030) as required by Rule 5(B). The RRI Budget is calculated as 1% of the Plan 4 Revenue Requirement. Actual Compliance Spend is calculated as the difference between the PVRRs of Plan 4 and Plan 4 – RES in each year. As indicated in the table, the average Actual Compliance Spend for the 10-year period does not exceed the budgeted 1% RRI for the 10-year period.

*Exhibit 3: 2021-2030 Annual Revenue Requirements and RES Compliance Spend*

<i>Dollars in millions</i>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
RRI Budget (2021-2030)	*										*
Actual Compliance Spend (2021-2030)	*										*
Revenue Requirement (2021-2030)	*										*
Budget (% of RR)	*%										*%
Actual Compliance Spend (% of RR)	*%										*%

The Empire District Electric Company – Liberty Utilities Central  
 2021 RES RRI Filing 4 CSR 240-20.100  
 PUBLIC VERSION

The following tables summarize the Retail Rate Impact calculation, including the annual carry-forward amount required by Rule 5(G).

Exhibit 4 2021-2030 RRI Calculation Period

2021-2030 RRI Calculation Period		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2030 10-Year Budget	Cumulative Budget (2021-2030)
Baseline Revenue Requirement (\$MM)	Annual 1% (\$MM)	*	*	*	*	*	*	*	*	*	*	*	*
Actual Costs of Compliance	Annual Over (Under) Plus Prior Carryover	*	*	*	*	*	*	*	*	*	*	*	Cumulative Costs (2021-2030)
Cumulative Carryover		*	*	*	*	*	*	*	*	*	*	*	*

Exhibit 5 2022-2031 RRI Calculation Period

2022-2031 RRI Calculation Period		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2031 10-Year Budget	Cumulative Budget (2021-2031)
Baseline Revenue Requirement (\$MM)	Annual 1% (\$MM)	*	*	*	*	*	*	*	*	*	*	*	*
Actual Costs of Compliance	Annual Over (Under) Plus Prior Carryover	*	*	*	*	*	*	*	*	*	*	*	Cumulative Costs (2021-2031)
Cumulative Carryover		*	*	*	*	*	*	*	*	*	*	*	*

Exhibit 6 2023-2032 RRI Calculation Period

2023-2032 RRI Calculation Period		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2032 10-Year Budget	Cumulative Budget (2021-2032)
Baseline Revenue Requirement (\$MM)	Annual 1% (\$MM)	*	*	*	*	*	*	*	*	*	*	*	*
Actual Costs of Compliance	Annual Over (Under) Plus Prior Carryover	*	*	*	*	*	*	*	*	*	*	*	Cumulative Costs (2021-2032)
Cumulative Carryover		*	*	*	*	*	*	*	*	*	*	*	*

Exhibit 7 2024-2033 RRI Calculation Period



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2024-2033 RRI Calculation Period

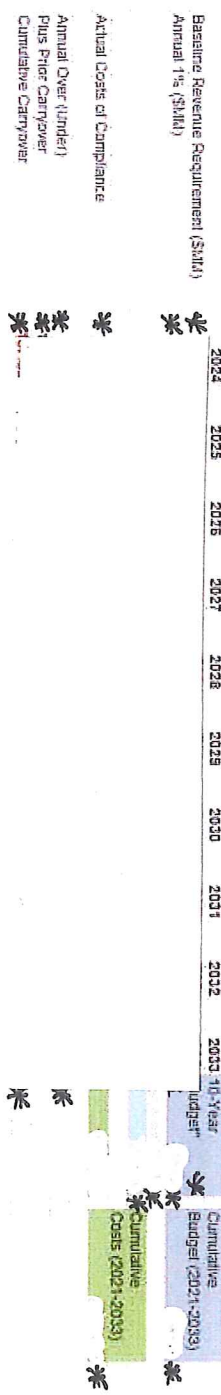


Exhibit 8 2025-2034 RRI Calculation Period

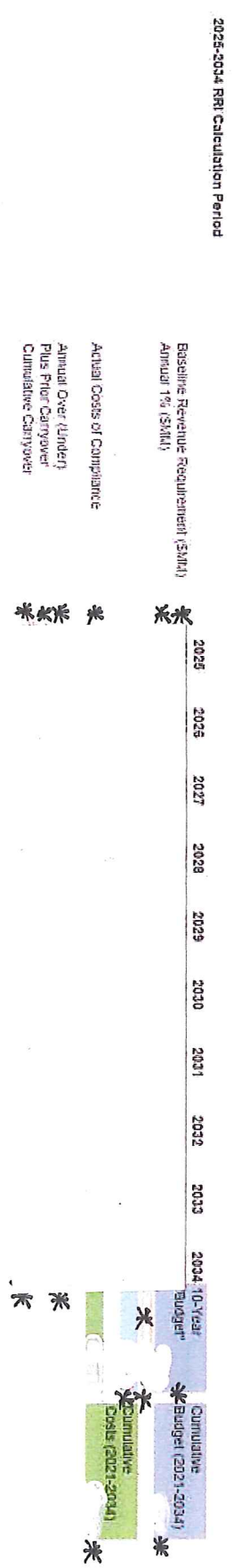


Exhibit 9 2026-2035 RRI Calculation Period

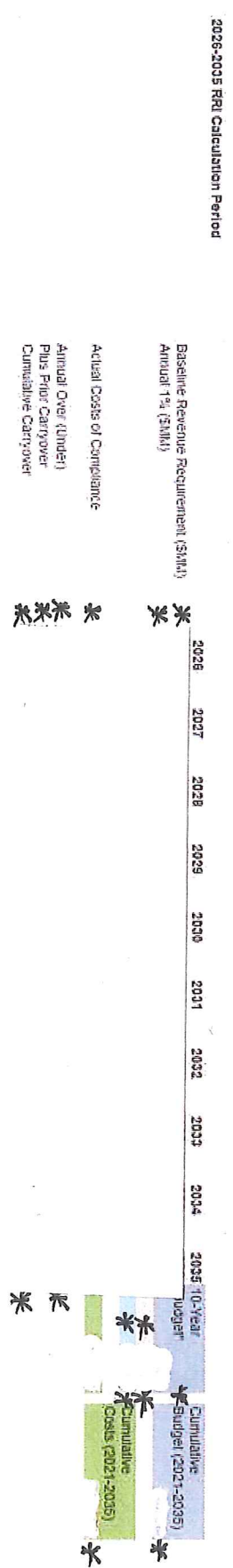
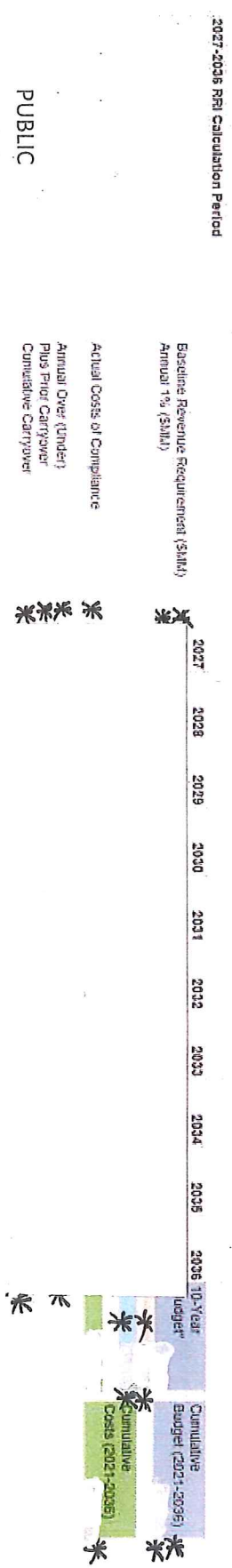


Exhibit 10 2027-2036 RRI Calculation Period



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 2021 RES RRI Filing 4 CSR 240-20.100  
 PUBLIC VERSION

Exhibit 11 2028-2037 RRI Calculation Period

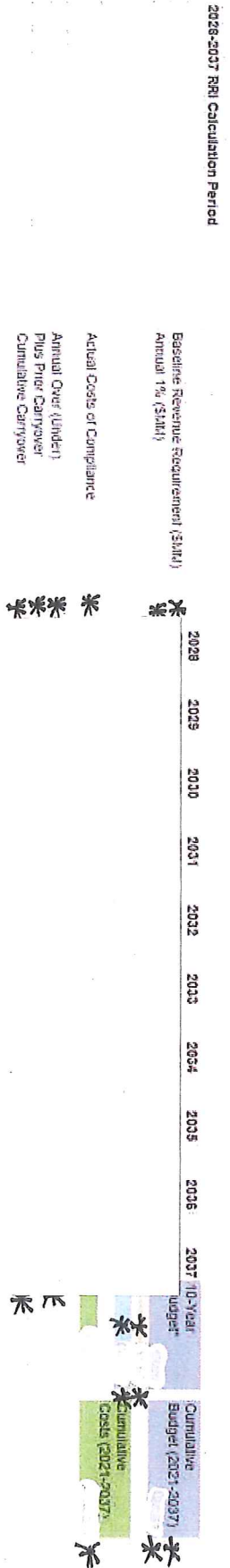


Exhibit 12 2029-2038 RRI Calculation Period

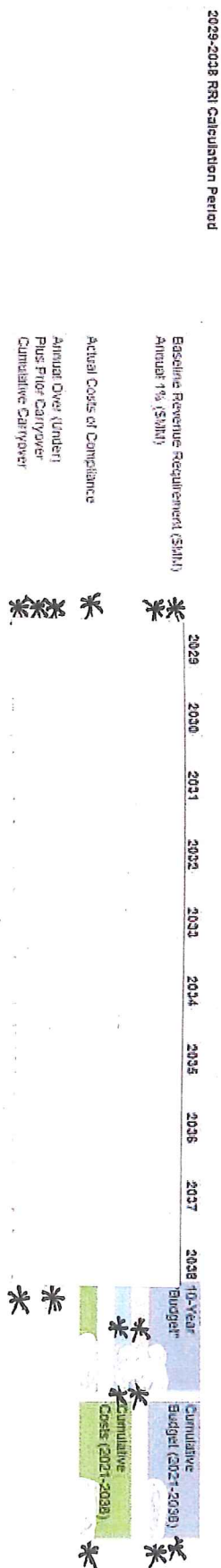


Exhibit 13 2030-2039 RRI Calculation Period

