

# THE EMPIRE DISTRICT ELECTRIC COMPANY

2021

## ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE REPORT

Prepared in Compliance with 20 CSR 4240-20.100

Supplemental Filing  
July 2022

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

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# 2021 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 2021 RES Compliance Report on or before April 15, 2022.

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.

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 2021.

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 operation in December of 2020. In addition to this new project, the 300-MW Neosho Ridge Wind project (located in Kansas), and the 149-MW Kings Point Wind project (located in Missouri) reached commercial operation in 2021. These Commission-approved resources were added to fulfill the Customer Savings Plan. Empire also completed the addition of the 2.2-MW Prosperity Solar Farm in 2021.

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 2021, RECs generated in 2020 and 2021 were used for the RES requirement which were generated at Elk River Windfarm, Meridian Way Wind Farm, North Fork Ridge Wind, Kings Point Wind, Ozark Beach, and customer-generated solar.

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 2021 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 2021 Total Retail Sales**

Year	MWh	Revenue
2021	4,185,550	\$474,937,560

*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 2021 and the MWhs that were supplied. (See ATTACHMENT 1)

**Table 2: Total 2021 Retail Electric Sales Supplied by Renewable Energy**

Facility	Generation (MWh)	Percentage	Energy Supplied to MO Retail Customers (MWh)
Elk River	300,512	88.90%	267,155
Meridian Way	178,947	88.90%	159,084
Ozark Beach	50,542	88.90%	44,931
North Fork Ridge	498,279	88.90%	442,970
Kings Point	407,657	88.90%	362,407
Neosho Ridge	888,337	88.90%	789,732
TOTAL			2,066,228

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

In 2021, EDE-owned Ozark Beach generated energy which allowed for the creation of 50,542 RECs. Using the provision of the Missouri RES allowing for additional credit of 0.25, the resultant RECs available for compliance totaled 63,177 RECs (50,542 x 1.25). The value of the energy generated by Ozark Beach for calendar year 2021 was \$\*\_\_\_\_\*/MWh as determined by the locational marginal pricing through the Southwest Power Pool (SPP).

In 2021, Missouri-resourced RECs from EDE-owned North Fork Ridge (7,335) and Kings Point (62,265) were used for compliance due to NARR registration lag and lower than anticipated production from the wind purchased power agreement. The value of energy generated by North Fork Ridge for 2021 was \$\*\_\_\_\_\*/MWh, the value of energy generated at Kings Point was \$\*\_\_\_\_\*/MWh, and the value of energy generated by Neosho Ridge for 2021 was \$\*\_\_\_\_\*/MWh as determined by locational marginal pricing through the SPP.

The value of the customer generated solar energy was \$50.13/SREC. This value is determined using the rebate amount of \$22,157,862 paid in solar rebates divided by 44,198 (the amount of SRECs received). The rebate entitles EDE to receive SRECs from these systems for 10 years.

Completion and operation of the Prosperity Solar Farm generated 1,253 SRECs in 2021. These SRECs were retired on behalf of participating customers per the Community Solar Pilot Program tariff filed with the Commission, are not used for compliance and do not enter the SPP system. The average 2021 market value for voluntary, non Green-e SRECs was \$1.50/MWh.

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

### **RECS ACQUIRED:**

EDE receives renewable energy from multiple sources: ownership of Ozark Beach; ownership of Kings Point, North Fork Ridge and Neosho Ridge Wind projects; ownership of Prosperity Solar Farm; two purchased power agreements (Elk River Windfarm and Meridian Way Wind Farm); and customer-generated solar. EDE utilizes the North American Renewable Registry (NARR) as recommended by Staff and approved by the Commission for tracking all RECs.

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 the 105-megawatt Meridian Way Wind Farm. In 2021, Elk River generated 300,512 MWhs and Meridian Way generated 178,947 MWhs. (See ATTACHMENT 2)

## **RECS SOLD/TRANSFERRED:**

During 2021, 88,630 RECs from Meridian Way were sold through a purchased power agreement with Missouri Joint Municipal Electric Utility Commission and on the open market. EDE was able to register and certify the new wind resources in 2021 and sold 281,947 RECs from Kings Point Wind, 906,439 from Neosho Ridge Wind, and 421,661 from North Fork Ridge. (See ATTACHMENT 3). These RECs were sold and transferred in the NARR.

In July of 2021, 144 RECs from Elk River Windfarm were retired to support the application for an MDNR Volkswagen funding grant request. The grant was awarded which allowed EDE to add electric vehicle charging stations to the system.

## **RECS RETIRED:**

During 2021, 54,857 vintage 2020 and 2021 RECs from hydroelectric generation at Ozark Beach were retired to help fulfill the non-solar Missouri compliance obligation. In addition, 438,743 vintage 2020 and 2021 RECs from generation at the Elk River Windfarm, Meridian Way Wind Farm, Kings Point Wind, and North Fork Wind were retired for the non-solar RES obligation for 2021. Although Ozark Beach, Elk River and Meridian Way typically provide adequate generation for 2021 compliance, generation was lower than anticipated during the last part of the year. Generation from Empire-owned wind resources was required for end-of-year compliance retirement.

In March of 2022, 14,211 vintage 2021 RECs from Ozark Beach, 19,207 from Elk River, and 15,436 from Meridian Way were retired to complete the 2021 Missouri compliance obligation. RECs generated from Ozark Beach, Kings Point Wind and North Fork Wind are entitled to the 1.25 multiplying factor as they represent Missouri based generation.

In addition, 40,636 SRECs generated from EDE customers (EDE Solar Aggregate Assets 1 – 39) in 2020 were utilized and were retired in December of 2021. Any remaining SRECs will be banked for future use. SRECs from customer installed net metered systems are entitled to the 1.25 compliance multiplying factor as they represent Missouri based generation.

In total, 542,454 RECs and 40,636 SRECs were retired to fulfill the 2021 Missouri compliance obligation. (See ATTACHMENT 4). Prosperity Community Solar Project retired 1,253 SRECs generated in 2021 on behalf of subscribing customers.

**Table 3: Total 2021 RECs Sold, Carried Forward or Used for Compliance**

Facility	2021 Generation (MWh)	RECs Sold in 2021	RECs Carried Forward	RECs Retired in 2021 for Compliance	RECs Retired in 2022 for Compliance
Elk River	300,512	0	45,507	308,979	19,207
Meridian Way	178,947	88,630	14,717	60,164	15,436
Ozark Beach	50,542	0	0	54,857	14,211
North Fork Ridge	498,279	421,661	108,731	7,335	0
Kings Point	407,657	281,947	63,445	62,265	0
Neosho Ridge	888,337	906,439	4,700	0	0
EDE Solar Aggregates 1 - 44	44,198	0	44,198	40,636	
Prosperity Community Solar (not for MoRES Compliance)	1,253			1,253	
<b>TOTAL</b>	<b>2,369,725</b>	<b>1,698,677</b>	<b>281,298</b>	<b>493,600</b>	<b>48,854</b>

\*North Fork Ridge and Neosho Ridge sales include some generation from 2020.

\*\*Prosperity Solar retirement is not associated with the MORES Standard.

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

### **RECS CARRIED FORWARD:**

RECs and SRECs generated by renewable energy resources were carried forward at the end of 2021 as indicated in Table 3. The majority of the RECs were used for compliance or sold during the first quarter of 2022. Any remaining RECs or SRECs will be held for future compliance or sale benefitting customers through the fuel adjustment clause. (See ATTACHMENT 5)

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

The sale of excess REC's not needed for compliance of any sort of renewable energy standards, will attempt to be monetized through sales to third parties and the revenue received from any sales of excess REC's will be distributed back to retail customers through the appropriate tracker mechanisms for each jurisdiction. The revenue generated from REC's will be distributed back to customers for generation and REC creation after the associated investments are reflected in actual rates.

ATTACHMENTS 1 and 3 include the amount of wind generation allocated for Missouri retail customers by each wind farm and the REC report indicating sales of 2021 Kings Point Wind, Meridian Way, Neosho Ridge Wind, and North Fork Ridge Wind RECs. Any gains from sale or purchase were returned to the customers through the fuel adjustment.

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

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

Elk River Wind (Resource)  
Avangrid Renewables (Owner) 14980 SE 190th Rd.  
Latham, KS 67072

Meridian Way I (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 2021.

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

For the calendar year 2021, the annual number of customers that applied and received a solar rebate by December 31, 2021 in accordance with section (4) of the Rule was 304. A total of 3,245 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 2021 solar rebates totaled \$1,112,174. Since the beginning of the rebate program over \$22 million has been expended for solar rebates.

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

See Affidavit of Compliance with 2021 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 2021 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 2021 retail rate impact is 0.24% calculated using the total 2021 compliance cost of \$1,154,213 and the 2021 revenue requirement of \$474,937,560. Costs incurred for 2021 compliance totaled \$34,539 for the registration, retirement, and associated costs of REC and SREC management and reporting. Solar costs incurred for 2021 solar rebates paid totaled \$1,112,174. The total compliance cost for 2021 was \$1,154,213.

The retail rate impact (RRI) shall be calculated pursuant to Missouri statute and regulation and shall be calculated annually on an incremental basis for each planning year based on procurement or development of renewable energy resources averaged over the succeeding

ten- (10-) year period. The modeling indicates this amount may be exceeded with the addition of the new renewable energy resources to fulfill the Customer Savings Plan, which were not specifically constructed for RES compliance. The table below indicates adequate generation to meet the total RES Requirement using Elk River, Meridian Way and Ozark Beach, when the generation from customer-generated solar is also considered (approximately 44,198 RECs x 1.25 Missouri-sourced multiplier). The cost of adding the new wind projects will not impact compliance until the termination of the Elk River contract in December of 2024.

**Table 4: Projected Non-Solar Compliance**

Time Period	RES Requirement Percent	Mo Retail Sales (MWh)	Non Solar Resources <sup>1</sup>							Total Non-Solar Requirement	Total RES Requirement <sup>3</sup>
			Elk River	Meridian Way	Ozark Beach	North Fork Ridge Wind	Kings Point Wind	Neosho Ridge Wind	Total Potential <sup>2</sup>		
2022	15%	4,308,795	282,000	277,000	67,500	718,750	750,000	1,325,000	3,420,250	633,393	646,319
2023	15%	4,338,622	282,000	277,000	67,500	718,750	750,000	1,325,000	3,420,250	637,777	650,793
2024	15%	4,365,882	282,000	277,000	67,500	718,750	750,000	1,325,000	3,420,250	641,785	654,882

ATTACHMENT 1:

WIND GENERATION ALLOCATION FOR MO RETAIL CUSTOMERS 2021

<b>Facility</b>	<b>Generation (MWh)</b>	<b>Percentage*</b>	<b>Energy Supplied to Missouri Retail Customers (MWh)</b>
Elk River Windfarm	300,512	88.9%	267,155
Cloud County Meridian Way Windfarm	178,947	88.9%	159,084
North Fork Ridge Wind	498,279	88.9%	442,970
Kings Point Wind	407,657	88.9%	362,407
Neosho Ridge Wind	888,337	88.9%	789,732

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











0	0	0	0
0	0	0	0

ATTACHMENT 4 RECS RETIRED FOR COMPLIANCE

Sub-Accou	NAR ID	Asset	Fuel/Proje	Certificate	Certificate	Quantity	Mo Equiv	total	Complianc
	270	AGG2380	EDE Solar / Solar	20-Dec	NAR-AGG-3	1075	1343.75		2021
	270	AGG2372	EDE Solar / Solar	20-Dec	NAR-AGG-3	1244	1555		2021
	270	AGG2375	EDE Solar / Solar	20-Dec	NAR-AGG-3	1241	1551.25		2021
	270	AGG2376	EDE Solar / Solar	20-Dec	NAR-AGG-3	1133	1416.25		2021
	270	AGG2377	EDE Solar / Solar	20-Dec	NAR-AGG-3	1250	1562.5		2021
	270	AGG2378	EDE Solar / Solar	20-Dec	NAR-AGG-3	1221	1526.25		2021
	270	AGG2379	EDE Solar / Solar	20-Dec	NAR-AGG-3	1000	1250		2021
	270	AGG2381	EDE Solar / Solar	20-Dec	NAR-AGG-3	971	1213.75		2021
	270	AGG2475	EDE Solar / Solar	20-Dec	NAR-AGG-3	986	1232.5		2021
	270	AGG2476	EDE Solar / Solar	20-Dec	NAR-AGG-3	1003	1253.75		2021
	270	AGG2516	EDE Solar / Solar	20-Dec	NAR-AGG-3	1210	1512.5		2021
	270	AGG2517	EDE Solar / Solar	20-Dec	NAR-AGG-3	1179	1473.75		2021
	270	AGG2560	EDE SOLAR Solar	20-Dec	NAR-AGG-3	1128	1410		2021
	270	AGG2561	EDE Solar / Solar	20-Dec	NAR-AGG-3	905	1131.25		2021
	270	AGG2648	EDE Solar / Solar	20-Dec	NAR-AGG-3	1130	1412.5		2021
	270	AGG2649	EDE Solar / Solar	20-Dec	NAR-AGG-3	1273	1591.25		2021
	270	AGG2650	EDE Solar / Solar	20-Dec	NAR-AGG-3	1156	1445		2021
	270	AGG2848	EDE Solar / Solar	20-Dec	NAR-AGG-3	1336	1670		2021
	270	AGG2847	EDE Solar / Solar	20-Dec	NAR-AGG-3	1317	1646.25		2021
	270	AGG2849	EDE Solar / Solar	20-Dec	NAR-AGG-3	1471	1838.75		2021
	270	AGG2850	EDE Solar / Solar	20-Dec	NAR-AGG-3	520	650		2021
	270	AGG2851	EDE Solar / Solar	20-Dec	NAR-AGG-3	844	1055		2021
	270	AGG3552	EDE SOLAR Solar	20-Dec	NAR-AGG-3	846	1057.5		2021
	270	AGG2321	EDE Solar / Solar	20-Dec	NAR-AGG-3	1339	1673.75		2021
	270	AGG2322	EDE Solar / Solar	20-Dec	NAR-AGG-3	1176	1470		2021
	270	AGG2323	EDE Solar / Solar	20-Dec	NAR-AGG-3	1138	1422.5		2021
	270	AGG3260	EDESOLAR Solar	20-Dec	NAR-AGG-3	1077	1346.25		2021
	270	AGG3261	EDESOLAR Solar	20-Dec	NAR-AGG-3	1088	1360		2021
	270	AGG3262	EDESOLAR Solar	20-Dec	NAR-AGG-3	1034	1292.5		2021
	270	AGG3263	EDESOLAR Solar	20-Dec	NAR-AGG-3	1099	1373.75		2021
	270	AGG3264	EDESOLAR Solar	20-Dec	NAR-AGG-3	727	908.75		2021
	270	AGG3265	EDESOLAR Solar	20-Dec	NAR-AGG-3	1012	1265		2021
	270	AGG3266	EDESOLAR Solar	20-Dec	NAR-AGG-3	604	755		2021
	270	AGG3267	EDESOLAR Solar	20-Dec	NAR-AGG-3	1243	1553.75		2021
	270	AGG3268	EDESOLAR Solar	20-Dec	NAR-AGG-3	1148	1435		2021
	270	AGG3269	EDESOLAR Solar	20-Dec	NAR-AGG-3	1156	1445		2021
	270	AGG3553	EDESOLAR Solar	20-Dec	NAR-AGG-3	691	863.75		2021
	270	AGG3554	EDESOLAR Solar	20-Dec	NAR-AGG-3	461	576.25		2021
	270	AGG3555	EDESOLAR Solar	20-Dec	NAR-AGG-3	204	255	40636	2021
	270	GEN97	Elk River W Wind	21-Apr	NAR-REC-9	35179			2021
	270	GEN97	Elk River W Wind	20-Nov	NAR-REC-9	33990			2021
	270	GEN97	Elk River W Wind	21-Jul	NAR-REC-9	16342			2021
	270	GEN97	Elk River W Wind	21-Jan	NAR-REC-9	29048			2021
	270	GEN97	Elk River W Wind	21-Mar	NAR-REC-9	27340			2021

270	GEN97	Elk River V Wind	21-Aug	NAR-REC-9	30893			2021
270	GEN97	Elk River V Wind	21-Feb	NAR-REC-9	17165			2021
270	GEN97	Elk River V Wind	21-May	NAR-REC-9	29396			2021
270	GEN97	Elk River V Wind	20-Dec	NAR-REC-9	35283			2021
270	GEN97	Elk River V Wind	20-Oct	NAR-REC-9	3908			2021
270	GEN97	Elk River V Wind	21-Sep	NAR-REC-9	28497			2021
270	GEN97	Elk River V Wind	21-Jun	NAR-REC-9	21938			2021
270	GEN97	Elk River V Wind	21-Oct	NAR-REC-9	19207			2021
							328186	
270	GEN3535	KINGS POII Wind	21-Sep	NAR-REC-3	49469	61836.25		2021
270	GEN3535	KINGS POII Wind	21-Aug	NAR-REC-3	12796	15995		2021
							62265	
270	GEN98	Meridian V Wind	21-Aug	NAR-REC-9	16963			2021
270	GEN98	Meridian V Wind	21-Jun	NAR-REC-9	9968			2021
270	GEN98	Meridian V Wind	21-Sep	NAR-REC-9	9534			2021
270	GEN98	Meridian V Wind	21-May	NAR-REC-9	12302			2021
270	GEN98	Meridian V Wind	21-Jul	NAR-REC-9	11397			2021
270	GEN98	Meridian V Wind	21-Nov	NAR-REC-9	5800			2021
270	GEN98	Meridian V Wind	21-Oct	NAR-REC-9	9636			2021
							75600	
270	GEN3522	NORTH FO Wind	21-Sep	NAR-REC-3	7335	9168.75		2021
							7335	
270	GEN99	Ozark Beac Hydroelect	21-Sep	NAR-REC-9	1853	2316.25		2021
270	GEN99	Ozark Beac Hydroelect	21-Apr	NAR-REC-9	6100	7625		2021
270	GEN99	Ozark Beac Hydroelect	21-Feb	NAR-REC-9	8165	10206.25		2021
270	GEN99	Ozark Beac Hydroelect	20-Nov	NAR-REC-9	7436	9295		2021
270	GEN99	Ozark Beac Hydroelect	21-Aug	NAR-REC-9	1066	1332.5		2021
270	GEN99	Ozark Beac Hydroelect	21-Jan	NAR-REC-9	10682	13352.5		2021
270	GEN99	Ozark Beac Hydroelect	21-Mar	NAR-REC-9	6950	8687.5		2021
270	GEN99	Ozark Beac Hydroelect	20-Oct	NAR-REC-9	3509	4386.25		2021
270	GEN99	Ozark Beac Hydroelect	21-May	NAR-REC-9	1515	1893.75		2021
270	GEN99	Ozark Beac Hydroelect	20-Dec	NAR-REC-9	7581	9476.25		2021
270	GEN99	Ozark Beac Hydroelect	21-Oct	NAR-REC-9	2886	3607.5		2021
270	GEN99	Ozark Beac Hydroelect	21-Dec	NAR-REC-9	7783	9728.75		2021
270	GEN99	Ozark Beac Hydroelect	21-Nov	NAR-REC-9	3542	4427.5		2021
							69068	
270	GEN3494	PROSPERIT Solar	21-Aug	NAR-REC-3	139			2021
270	GEN3494	PROSPERIT Solar	21-Sep	NAR-REC-3	400			2021
270	GEN3494	PROSPERIT Solar	21-Aug	NAR-REC-3	59			2021
270	GEN3494	PROSPERIT Solar	21-Nov	NAR-REC-3	225			2021
270	GEN3494	PROSPERIT Solar	21-Oct	NAR-REC-3	224			2021
270	GEN3494	PROSPERIT Solar	21-Dec	NAR-REC-3	206			2021





Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO 3/2/2022 Yes

328186

Renewable MO ##### Yes  
Renewable MO ##### Yes

77831.25

Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO 3/2/2022 Yes  
Renewable MO 3/2/2022 Yes

75600

Renewable MO ##### Yes

9168.75

Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO ##### Yes  
Renewable MO 3/2/2022 Yes  
Renewable MO 3/2/2022 Yes  
Renewable MO 3/2/2022 Yes

86335

Retired on behalf of B 3/4/2022 No  
Retired on behalf of B 3/4/2022 No  
Retired on behalf of B 3/4/2022 No  
Retired on behalf of B 3/4/2022 No  
Retired on behalf of B 3/4/2022 No  
Retired on behalf of B 3/4/2022 No

TOTAL  
COMPLIAN 627916  
RETIREMENT

ATTACHMENT 5 RECS CARRIED FORWARD

Sub-Accou	NAR ID	Asset	Fuel/Project	Certificate	Certificate	Quantity	Transferor	MO	Compl	MO
269	AGG2380	EDE Solar / Solar		21-Dec	NAR-AGG-1	1075		1343.75	Yes	
269	AGG2372	EDE Solar / Solar		21-Dec	NAR-AGG-1	1244		1555	Yes	
269	AGG2375	EDE Solar / Solar		21-Dec	NAR-AGG-1	1214		1517.5	Yes	
269	AGG2376	EDE Solar / Solar		21-Dec	NAR-AGG-1	1126		1407.5	Yes	
269	AGG2377	EDE Solar / Solar		21-Dec	NAR-AGG-1	1211		1513.75	Yes	
269	AGG2378	EDE Solar / Solar		21-Dec	NAR-AGG-1	1200		1500	Yes	
269	AGG2379	EDE Solar / Solar		21-Dec	NAR-AGG-1	991		1238.75	Yes	
269	AGG2381	EDE Solar / Solar		21-Dec	NAR-AGG-1	961		1201.25	Yes	
269	AGG2475	EDE Solar / Solar		21-Dec	NAR-AGG-1	948		1185	Yes	
269	AGG2476	EDE Solar / Solar		21-Dec	NAR-AGG-1	1002		1252.5	Yes	
269	AGG2516	EDE Solar / Solar		21-Dec	NAR-AGG-1	1210		1512.5	Yes	
269	AGG2517	EDE Solar / Solar		21-Dec	NAR-AGG-1	1141		1426.25	Yes	
269	AGG2560	EDE SOLAR Solar		21-Dec	NAR-AGG-1	1107		1383.75	Yes	
269	AGG2561	EDE Solar / Solar		21-Dec	NAR-AGG-1	905		1131.25	Yes	
269	AGG2648	EDE Solar / Solar		21-Dec	NAR-AGG-1	1129		1411.25	Yes	
269	AGG2649	EDE Solar / Solar		21-Dec	NAR-AGG-1	1262		1577.5	Yes	
269	AGG2650	EDE Solar / Solar		21-Dec	NAR-AGG-1	1144		1430	Yes	
269	AGG2848	EDE Solar / Solar		21-Dec	NAR-AGG-1	1303		1628.75	Yes	
269	AGG4215	EDE Solar / Solar		21-Dec	NAR-AGG-1	742		927.5	Yes	
269	AGG4205	EDE Solar / Solar		21-Dec	NAR-AGG-1	651		813.75	Yes	
269	AGG4216	EDE Solar / Solar		21-Dec	NAR-AGG-1	197		246.25	Yes	
269	AGG4217	EDE Solar / Solar		21-Dec	NAR-AGG-1	311		388.75	Yes	
269	AGG4218	EDE Solar / Solar		21-Dec	NAR-AGG-1	166		207.5	Yes	
269	AGG2847	EDE Solar / Solar		21-Dec	NAR-AGG-1	1281		1601.25	Yes	
269	AGG2849	EDE Solar / Solar		21-Dec	NAR-AGG-1	1470		1837.5	Yes	
269	AGG2850	EDE Solar / Solar		21-Dec	NAR-AGG-1	520		650	Yes	
269	AGG2851	EDE Solar / Solar		21-Dec	NAR-AGG-1	844		1055	Yes	
269	AGG3552	EDE SOLAR Solar		21-Dec	NAR-AGG-1	1009		1261.25	Yes	
269	AGG2321	EDE Solar / Solar		21-Dec	NAR-AGG-1	1318		1647.5	Yes	
269	AGG2322	EDE Solar / Solar		21-Dec	NAR-AGG-1	1169		1461.25	Yes	
269	AGG2323	EDE Solar / Solar		21-Dec	NAR-AGG-1	1093		1366.25	Yes	
269	AGG3260	EDESOLAR Solar		21-Dec	NAR-AGG-1	1032		1290	Yes	
269	AGG3261	EDESOLAR Solar		21-Dec	NAR-AGG-1	1078		1347.5	Yes	
269	AGG3262	EDESOLAR Solar		21-Dec	NAR-AGG-1	1027		1283.75	Yes	
269	AGG3263	EDESOLAR Solar		21-Dec	NAR-AGG-1	1099		1373.75	Yes	
269	AGG3264	EDESOLAR Solar		21-Dec	NAR-AGG-1	727		908.75	Yes	
269	AGG3265	EDESOLAR Solar		21-Dec	NAR-AGG-1	1012		1265	Yes	
269	AGG3266	EDESOLAR Solar		21-Dec	NAR-AGG-1	591		738.75	Yes	
269	AGG3267	EDESOLAR Solar		21-Dec	NAR-AGG-1	1235		1543.75	Yes	
269	AGG3268	EDESOLAR Solar		21-Dec	NAR-AGG-1	1148		1435	Yes	
269	AGG3269	EDESOLAR Solar		21-Dec	NAR-AGG-1	1172		1465	Yes	
269	AGG3553	EDESOLAR Solar		21-Dec	NAR-AGG-1	1032		1290	Yes	
269	AGG3554	EDESOLAR Solar		21-Dec	NAR-AGG-1	1044		1305	Yes	
269	AGG3555	EDESOLAR Solar		21-Dec	NAR-AGG-1	1057		1321.25	Yes	

269 GEN97	Elk River W Wind	21-Nov NAR-REC-9	23890		23890 Yes
269 GEN97	Elk River W Wind	21-Dec NAR-REC-9	21617		21617 Yes
				45507	
269 GEN3535	KINGS POII Wind	21-Nov NAR-REC-3	50304		62880 Yes
269 GEN3535	KINGS POII Wind	21-Dec NAR-REC-3	13141		16426.25 Yes
				63445	
269 GEN98	Meridian V Wind	21-Dec NAR-REC-9	10810		10810 Yes
269 GEN98	Meridian V Wind	21-Nov NAR-REC-9	3907		3907 Yes
				14717	
269 GEN3493	NEOSHO R Wind	21-Nov NAR-REC-3	4700		4700 Yes
				4700	
269 GEN3522	NORTH FO Wind	21-Dec NAR-REC-3	60840		76050 Yes
269 GEN3522	NORTH FO Wind	21-Nov NAR-REC-3	47891		59863.75 Yes
				108731	
				281298	



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 **	**	Q1/2021
Wind **	**	Q2/2021
Wind **	**	Q3/2021
Wind **	**	Q4/2021

<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

1/31/2022

Signature

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

## 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	**	**	1/2021
Wind	**	**	2/2021
Wind	**	**	3/2021

**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:  
*B. M. H.*
February 17, 2022  
 \_\_\_\_\_  
 Signature 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.



## 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	**	**	4/2021
Wind	**	**	5/2021
Wind	**	**	6/2021

**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

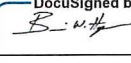
**IV. Additional statement required for and applicable to biomass facilities only**

- 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:  
  
1AA6B44331BC410...

February 17, 2022

Signature Date

Houston, TX  
Place of Execution

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

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





# Energy

## GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

### I. Facility information

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

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

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

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

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

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

Contact Person: 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	**	**	7/2021
Wind	**	**	8/2021
Wind	**	**	9/2021

### **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

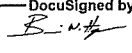
**IV. Additional statement required for and applicable to biomass facilities only**

- 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:  

February 17, 2022  
 \_\_\_\_\_  
 Signature Date

Houston, TX  
Place of Execution

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

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



# Energy

## GREEN-E ENERGY RENEWABLE GENERATOR REGISTRATION FORM AND ATTESTATION

### I. Facility information

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

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

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

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

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

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

Contact Person: 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	**                      **	10/2021
Wind	**                      **	11/2021
Wind	**                      **	12/2021

**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

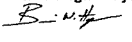
**IV. Additional statement required for and applicable to biomass facilities only**

- 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:  
  
 1AA6B44331BC410...

February 17, 2022

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 GENERATED SOLAR SYSTEMS

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
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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
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29-Jun-2015	29-Jun-2025	953511-50-548	MO	65785
29-Jun-2015	29-Jun-2025	953511-50-010	MO	65785
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30-Jun-2015	30-Jun-2025	018272-09-011	MO	64850
06-Jul-2015	06-Jul-2025	848859-21-424	MO	64850
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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
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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
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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
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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
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09-Nov-2015	09-Nov-2025	035456-36-043	MO	65616
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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
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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
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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
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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
18-Nov-2015	18-Nov-2025	067576-01-843	MO	65708
18-Nov-2015	18-Nov-2025	731967-88-082	MO	65616
18-Nov-2015	18-Nov-2025	988357-01-449	MO	65769
20-Nov-2015	20-Nov-2025	579965-93-580	MO	65721
20-Nov-2015	20-Nov-2025	767097-29-994	MO	65721
23-Nov-2015	23-Nov-2025	142093-01-950	MO	65605

23-Nov-2015	23-Nov-2025	276013-27-857	MO	64804
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25-Nov-2015	25-Nov-2025	203423-05-083	MO	65738
25-Nov-2015	25-Nov-2025	829223-93-577	MO	65613
25-Nov-2015	25-Nov-2025	963462-87-995	MO	65650
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30-Nov-2015	30-Nov-2025	465944-16-921	MO	65604
30-Nov-2015	30-Nov-2025	620689-26-133	MO	65781
03-Dec-2015	03-Dec-2025	470826-67-623	MO	64804
03-Dec-2015	03-Dec-2025	715273-92-883	MO	64804
03-Dec-2015	03-Dec-2025	956155-86-648	MO	64804
04-Dec-2015	04-Dec-2025	500382-38-213	MO	64804
07-Dec-2015	07-Dec-2025	433949-41-618	MO	64870
07-Dec-2015	07-Dec-2025	655456-22-385	MO	64870
08-Dec-2015	08-Dec-2025	206913-60-015	MO	65708
09-Dec-2015	09-Dec-2025	322280-08-989	MO	64870
09-Dec-2015	09-Dec-2025	833466-51-780	MO	64804
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13-Oct-2016	13-Oct-2026	796479-32-050	MO	65721
14-Oct-2016	14-Oct-2026	137639-87-088	MO	65646
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19-Oct-2016	19-Oct-2026	386912-34-358	MO	64859
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26-Oct-2016	26-Oct-2026	916862-86-955	MO	65738
31-Oct-2016	31-Oct-2026	092339-90-281	MO	65617
02-Nov-2016	02-Nov-2026	760841-88-179	MO	65613
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09-Nov-2016	09-Nov-2026	045314-96-583	MO	64862
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07-Sep-2017	07-Sep-2017	436891-09-7	MO	64801
08-Sep-2017	08-Sep-2017	146842-01-792	MO	65613
08-Sep-2017	08-Sep-2017	599267-95-897	MO	65781
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14-Sep-2017	14-Sep-2017	785940-48-933	MO	65738
15-Sep-2017	15-Sep-2017	171709-19-9	MO	64801
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18-Sep-2017	18-Sep-2017	511412-02-5	MO	64804
18-Sep-2017	18-Sep-2017	964127-41-9	MO	64804
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22-Sep-2017	22-Sep-2017	843854-03-733	MO	65738
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26-Sep-2017	26-Sep-2017	040191-28-543	MO	65708
26-Sep-2017	26-Sep-2017	123965-85-893	MO	64834
26-Sep-2017	26-Sep-2017	168693-97-166	MO	64748
26-Sep-2017	26-Sep-2017	294474-97-591	MO	64834
26-Sep-2017	26-Sep-2017	984474-08-548	MO	65721
28-Sep-2017	28-Sep-2017	119611-53-646	MO	65622
28-Sep-2017	28-Sep-2017	994346-59-050	MO	65767
29-Sep-2017	29-Sep-2017	033250-70-323	MO	64804
29-Sep-2017	29-Sep-2017	199161-36-5	MO	64835
29-Sep-2017	29-Sep-2017	362361-15-302	MO	65781
29-Sep-2017	29-Sep-2017	575706-80-9	MO	64824
29-Sep-2017	29-Sep-2017	850258-72-347	MO	64801

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02-Oct-2017	02-Oct-2027	789807-84-313	MO	65721
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05-Oct-2017	05-Oct-2027	708210-73-7	MO	64801
06-Oct-2017	06-Oct-2027	079380-61-4	MO	64834
06-Oct-2017	06-Oct-2027	279925-08-797	MO	64870
06-Oct-2017	06-Oct-2027	889746-33-315	MO	65605
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10-Oct-2017	10-Oct-2027	596148-48-025	MO	64834
11-Oct-2017	11-Oct-2027	226602-74-175	MO	64804
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13-Oct-2017	13-Oct-2027	125396-04-608	MO	65616
13-Oct-2017	13-Oct-2027	827236-49-024	MO	65616
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23-Oct-2017	23-Oct-2027	515689-65-987	MO	65605
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31-Oct-2017	31-Oct-2027	532908-03-521	MO	65622
31-Oct-2017	31-Oct-2027	632677-43-624	MO	65622
31-Oct-2017	31-Oct-2027	778818-54-181	MO	65613
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17-Nov-2017	17-Nov-2027	647701-27-160	MO	64801
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21-Nov-2017	21-Nov-2027	638167-53-868	MO	64804
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27-Nov-2017	27-Nov-2027	789962-70-711	MO	65616
28-Nov-2017	28-Nov-2027	618482-33-729	MO	64870
29-Nov-2017	29-Nov-2027	030979-14-649	MO	64804

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29-Nov-2017	29-Nov-2017	852337-41-903	MO	64834
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30-Nov-2017	30-Nov-2017	703029-97-473	MO	64873
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05-Dec-2017	05-Dec-2017	120536-33-168	MO	64850
05-Dec-2017	05-Dec-2017	177637-80-802	MO	65738
05-Dec-2017	05-Dec-2017	230186-11-594	MO	65769
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12-Dec-2017	12-Dec-2017	287408-70-502	MO	64834
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12-Dec-2017	12-Dec-2017	544982-57-408	MO	64804
12-Dec-2017	12-Dec-2017	617814-85-153	MO	65605
13-Dec-2017	13-Dec-2017	081941-91-040	MO	65616
13-Dec-2017	13-Dec-2017	688580-97-016	MO	65721
14-Dec-2017	14-Dec-2017	076501-61-518	MO	65622
14-Dec-2017	14-Dec-2017	347698-96-146	MO	65767
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14-Dec-2017	14-Dec-2017	481039-19-249	MO	65738
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28-Dec-2017	28-Dec-2017	012981-57-046	MO	64844
28-Dec-2017	28-Dec-2017	012981-57-262	MO	64844
28-Dec-2017	28-Dec-2017	012981-57-310	MO	64844
28-Dec-2017	28-Dec-2017	012981-57-332	MO	64844
28-Dec-2017	28-Dec-2017	012981-57-383	MO	64844
28-Dec-2017	28-Dec-2017	012981-57-849	MO	64844
28-Dec-2017	28-Dec-2017	378058-27-581	MO	65604

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08-Jan-2018	08-Jan-2028	461010-75-900	MO	65781
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10-Jan-2018	10-Jan-2028	225209-19-627	MO	65605
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23-Jan-2018	23-Jan-2028	558145-49-885	MO	65708
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23-Jan-2018	23-Jan-2028	976245-06-515	MO	65616

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13-Feb-2018	13-Feb-2028	709772-05-050	Mo	64804
14-Feb-2018	14-Feb-2028	031263-76-197	MO	65672
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26-Feb-2018	26-Feb-2028	628946-20-163	MO	65622
27-Feb-2018	27-Feb-2028	161419-80-451	MO	65707
27-Feb-2018	27-Feb-2028	420978-84-137	MO	64801
27-Feb-2018	27-Feb-2028	420978-84-742	MO	64801
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07-Mar-2018	07-Mar-2028	082050-71-661	MO	65714
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13-Mar-2018	13-Mar-2028	440695-81-201	MO	65721
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13-Mar-2018	13-Mar-2028	801881-47-390	MO	64801
13-Mar-2018	13-Mar-2028	831172-86-188	MO	65781
13-Mar-2018	13-Mar-2028	969616-18-179	MO	65604
14-Mar-2018	14-Mar-2028	524366-26-353	MO	64863
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29-Mar-2018	29-Mar-2028	489121-37-370	MO	64840
02-Apr-2018	02-Apr-2028	648324-68-828	MO	65721
03-Apr-2018	03-Apr-2028	294764-05-737	MO	65785



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11-Apr-2018	11-Apr-2028	014779-86-894	MO	64862
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16-Apr-2018	16-Apr-2028	236735-15-371	MO	65668
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16-Apr-2018	16-Apr-2028	898990-83-080	MO	64804
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18-Apr-2018	18-Apr-2028	253952-08-461	MO	64804
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23-Apr-2018	23-Apr-2028	348403-82-522	MO	64804
24-Apr-2018	24-Apr-2028	234650-74-434	MO	65708
24-Apr-2018	24-Apr-2028	355900-26-562	MO	65613
24-Apr-2018	24-Apr-2028	532350-57-605	MO	64804
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25-Apr-2018	25-Apr-2028	116410-92-652	MO	64850
26-Apr-2018	26-Apr-2028	442010-02-668	MO	65672
26-Apr-2018	26-Apr-2028	220465-20-398	MO	65738
26-Apr-2018	26-Apr-2028	380587-16-413	MO	65721
01-May-2018	01-May-2028	173959-94-511	MO	64850
01-May-2018	01-May-2028	394349-82-489	MO	64850
04-May-2018	04-May-2028	013250-62-237	MO	65672
07-May-2018	07-May-2028	387158-41-224	MO	65672
07-May-2018	07-May-2028	451537-34-966	MO	65613



08-May-2018	08-May-2028	285184-66-028	MO	65781
08-May-2018	08-May-2028	322482-79-430	MO	65723
09-May-2018	09-May-2028	031227-14-672	MO	65738
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09-May-2018	09-May-2028	872710-87-331	MO	65616
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10-May-2018	10-May-2028	297182-73-898	MO	65604
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31-May-2018	31-May-2028	143723-39-628	MO	65721
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31-May-2018	31-May-2028	482088-30-235	MO	65653
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28-Sep-2018	28-Sep-2028	553309-30-477	MO	65738
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03-Oct-2018	03-Oct-2028	173142-15-418	MO	64644

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31-Oct-2018	31-Oct-2028	889455-30-812	MO	64748
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03-Nov-2018	03-Nov-2028	681089-29-579	MO	65613
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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
08-Nov-2018	08-Nov-2028	515562-83-971	MO	64870
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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
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13-Nov-2018	13-Nov-2028	052296-22-945	MO	65605
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16-Nov-2018	16-Nov-2028	484042-25-114	MO	65738

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35	18.55	18.55		
35	4.61	4.61		
35	0	0		
35	23.59	23.59		
35	18.51	18.51		
35	10.68	10.68		
35	11.24	11.24		
35	16.59	16.59		
35	11.42	11.42		
35	1.72	1.72		
35	16.4	16.4		

35	11.36	11.36		
36	13.97	5.01	1008.85	N3552
36	7.33	7.33		
36	15.45	15.45		
36	13.38	13.38		
36	36.32	34.87		
36	12.41	12.41		
36	18.95	18.95		
36	4.2	4.2		
36	20.25	20.25		
36	2.65	2.65		
36	8.09	8.09		
36	4.2	4.2		
36	7.11	7.11		
36	12.22	12.22		
36	1.89	1.89		
36	12.46	12.46		
36	12.13	12.13		
36	9.93	9.93		
36	18.61	18.61		
36	13.69	13.69		
36	20	20		
36	12.91	12.91		
36	8	8		
36	6	6		
36	34.68	34.12		
36	16.53	16.53		
36	20.71	20.71		
36	9.75	9.75		
36	13.85	3.6		
36	10.22	10.22		
36	8.18	8.18		
36	11.83	11.83		
36	3.73	3.73		
36	50.57	36.64		
36	15.5	15.5		
36	17.89	17.89		
36	20.11	20.11		
36	8.41	6.15		
36	4	4		
36	10.8	10.8		
36	16	16		
36	7.22	7.22		
36	11.19	11.19		
36	24.42	24.42		
36	12.45	12.45		
36	9.6	9.6		

36	35.84	29.63		
36	15.79	15.79		
36	20.55	20.55		
36	32.74	31.88		
36	8.93	8.93		
36	10.53	10.53		
36	23.3	23.3		
36	15.54	15.54		
36	22.6	22.6		
36	5.4	5.4		
36	28.77	28.77		
36	12.94	12.94		
36	20.53	20.53		
36	12.22	12.22		
36	19.5	19.5		
36	22.2	22.2		
36	18.53	18.53		
36	12.86	12.86		
36	9.1	9.1		
36	26.45	26.45		
36	16.56	16.56		
36	20.33	20.33		
36	2.01	2.01		
36	0	0		
36	10.32	10.32		
37	78.01	33.15	1031.57	N3553
37	13.45	13.45		
37	11.52	11.52		
37	14.4	14.4		
37	10.9	10.9		
37	29	29		
37	27.23	27.23		
37	13.16	13.16		
37	14.69	14.69		
37	10.3	10.3		
37	9.05	9.05		
37	10.89	10.89		
37	20.4	20.4		
37	7.46	7.46		
37	20.84	20.84		
37	22.76	22.76		
37	23.02	23.02		
37	9.84	9.84		
37	13.51	13.51		
37	7.94	7.94		
37	12.12	12.12		
37	12.94	12.94		

37	10.6	10.6		
37	14.2	14.2		
37	7.75	7.75		
37	21.9	21.9		
37	40.06	37.16		
37	11.82	11.82		
37	67.6	32.01		
37	13.6	13.6		
37	21	21		
37	19.4	19.4		
37	15	15		
37	5.79	5.79		
37	7.98	7.98		
37	90	22.58		
37	11.22	11.22		
37	12.11	12.11		
37	5.05	5.05		
37	9.4	9.4		
37	9.47	9.47		
37	17.5	17.5		
37	12.6	12.6		
37	9.81	9.81		
37	9.61	9.61		
37	9.5	9.5		
37	0	0		
37	19.96	19.96		
37	8.26	8.26		
37	17.2	17.2		
37	31.02	31.02		
37	8.6	8.6		
37	18.78	18.78		
37	6.37	6.37		
37	9.59	9.59		
37	9.3	9.3		
37	10.58	10.58		
37	29.2	29.2		
37	21.8	21.8		
37	16.13	16.13		
37	5.87	5.87		
37	25.28	25.28		
37	14.48	14.48		
37	8.25	8.25		
37	8.74	8.74		
37	21.66	21.66		
37	14.4	14.4		
37	10.37	10.37		
37	20.1	20.1		

38	125.13	30.85		1043.92	N3554
38	18.99	18.99			
38	24.38	24.38			
38	15.4	15.4			
38	11.3	11.3			
38	14.41	14.41			
38	18.06	18.06			
38	23.2	23.2			
38	6.51	6.51			
38	7.3	7.3			
38	20.86	20.86			
38	9.99	9.99			
38	21.53	21.53			
38	7.45	7.45			
38	16	16			
38	19.39	19.39			
38	15.41	15.41			
38	13.9	13.9			
38	20.1	20.1			
38	2.5	2.5			
38	26.81	26.81			
38	9.2	9.2			
38	12	12			
38	14.2	14.2			
38	12.5	12.5			
38	9.54	9.54			
38	5.83	5.83			
38	13.93	13.93			
38	4.48	4.48			
38	5.9	5.9			
38	11.84	11.84			
38	59.7	33.08			
38	39.4	33.1			
38	7.4	7.4			
38	9.7	9.7			
38	16.74	16.74			
38	8.74	8.74			
38	13.35	13.35			
38	14.1	14.1			
38	13.16	13.16			
38	16.23	16.23			
38	35.66	35.66			
38	22.51	22.51			
38	1.6	1.6			
38	22.2	22.2			
38	15.7	15.7			
38	15.4	15.4			

38	13.06	13.06			
38	9.33	9.33			
38	6.9	6.9			
38	8.8	8.8			
38	147.88	33.65			
38	42.61	32.61			
38	15.75	15.75			
38	15.5	15.5			
38	14.04	14.04			
38	4.6	4.6			
38	14.3	14.3			
38	19.03	19.03			
38	83.6	36.74			
38	9.8	9.8			
38	5.4	5.4			
38	10.99	10.99			
38	23.88	23.88			
38	15.5	15.5			
38	9.01	9.01			
38	22.6	22.6			
39	78.44	33.15	888.48		
39	20.39	20.39	168.29		
39	135.5	29.67		1056.765	N3555
39	0	0			
39	18	18			
39	14.14	14.14			
39	14.8	14.8			
39	11	11			
39	11.95	11.95			
39	29.8	29.8			
39	17.8	17.8			
39	21.9	21.9			
39	193.06	32.61			
39	22.77	22.77			
39	20.9	20.9			
39	12.1	12.1			
39	18.2	18.2			
39	10.5	10.5			
39	16.75	16.75			
39	10.2	10.2			
39	10.47	10.47			
39	0	0			
39	7.1	7.1			
39	8.3	8.3			
39	11.26	11.26			
39	17.55	17.55			
39	13.9	13.9			

39	10.9	10.9			
39	19	19			
39	6.7	6.7			
39	11.8	11.8			
39	10.4	10.4			
39	17.6	17.6			
39	20.9	20.9			
39	13.3	13.3			
39	11.75	11.75			
39	13.03	13.03			
39	18.9	18.9			
39	42.43	36.83			
39	9.2	9.2			
39	23.6	23.6			
39	8.7	8.7			
39	11.26	11.26			
39	20.3	20.3			
39	11.8	11.8			
39	11	11			
39	14.59	14.59			
39	20.49	20.49			
39	5.5	5.5			
39	11.8	11.8			
39	15.2	15.2			
39	16.6	16.6			
39	7.2	7.2			
39	12.93	12.93			
39	22.71	22.71			
39	16.38	16.38			
39	10.8	10.8			
39	12.1	12.1			
39	12.89	12.89	12.89		
39	13.2	13.2	13.2		
39	26.35	26.35	26.35		
39	15.1	15.1	15.1		
39	5.19	5.19	5.19		
39	12.4	12.4	12.4		
39	9.7	9.7	9.7		
39	22.3	22.3	22.3		
39	16.78	16.78	16.78		
39	13.9	13.9	12.742		
39	0	0	0		
39	15.6	15.6	14.3		
39	8	8	7.3333		
40	15.66	15.66	14.355	742.2825	N4215
40	16.56	16.56	15.18		
40	6.38	6.38	5.8483		

40	11.83	11.83	10.844		
40	17.59	17.59	16.124		
40	10.44	10.44	9.57		
40	6.6	6.6	6.05		
40	2.65	2.65	2.4292		
40	10.2	10.2	9.35		
40	5.53	5.53	4.6083		
40	7.06	7.06	5.8833		
40	16.4	16.4	13.667		
40	5.37	5.37	4.475		
40	6.36	6.36	5.3		
40	13.6	13.6	11.333		
40	15.63	15.63	13.025		
40	20.8	20.8	17.333		
40	9.1	9.1	7.5833		
40	29.6	29.6	24.667		
40	17.3	17.3	14.417		
40	10.8	10.8	9		
40	40.84	37.07	30.892		
40	17.01	17.01	14.175		
40	8.69	8.69	7.2417		
40	15.3	15.3	11.475		
40	164.33	33.13	24.848		
40	13.78	13.78	10.335		
40	17.56	17.56	13.17		
40	11.2	11.2	8.4		
40	8.9	8.9	6.675		
40	7.5	7.5	5.625		
40	6.69	6.69	5.0175		
40	14.5	14.5	10.875		
40	13.5	13.5	10.125		
40	127.05	31.76	23.82		
40	38.28	36.95	27.713		
40	12.43	12.43	9.3225		
40	8.12	8.12	6.09		
40	0	0	0		
40	19.95	19.95	14.963		
40	13.95	3.89	2.9175		
40	5.98	5.98	4.485		
40	6.44	6.44	4.83		
40	10	10	7.5		
40	15.5	15.5	11.625		
40	6.19	6.19	4.6425		
40	19.14	19.14	14.355		
40	20.49	20.49	15.368		
40	12.04	12.04	9.03		
40	9.54	9.54	7.155		



40	14.78	14.78	11.085		
40	8.18	8.18	6.135		
40	15.91	15.91	11.933		
40	3.11	3.11	2.3325		
40	15.87	15.87	11.903		
40	4.97	4.97	3.7275		
40	21.82	21.82	16.365		
40	13.23	13.23	9.9225		
40	8.97	8.97	6.7275		
40	18.31	18.31	13.733		
40	17.69	17.69	13.268		
40	16.23	16.23	12.173		
40	28.51	28.51	21.383		
40	8.04	8.04	5.36		
40	10.98	10.98	7.32		
40	20.07	20.07	13.38		
40	16.58	16.58	11.053		
40	14.69	14.69	9.7933		
40	16.47	16.47	10.98		
41	10.16	10.16	6.7733	651.33	N4205
41	1.49	1.49	0.9933		
41	11.31	11.31	7.54		
41	10.04	10.04	6.6933		
41	11.45	11.45	7.6333		
41	6.25	6.25	4.1667		
41	28.87	28.87	19.247		
41	6.61	6.61	4.4067		
41	10.26	10.26	6.84		
41	32.09	32.09	21.393		
41	6.04	6.04	4.0267		
41	15.73	15.73	10.487		
41	18.5	18.5	12.333		
41	6.2	6.2	4.1333		
41	20.68	20.68	13.787		
41	17.46	17.46	11.64		
41	12.3	12.3	8.2		
41	5	5	3.3333		
41	2.41	2.41	1.6067		
41	16.9	16.9	11.267		
41	12.17	12.17	8.1133		
41	18.78	18.78	12.52		
41	10.02	10.02	6.68		
41	8.5	8.5	5.6667		
41	28.9	28.9	19.267		
41	18.57	18.57	12.38		
41	23.98	23.98	15.987		
41	160.2	37.2	24.8		

41	24.28	24.28	16.187		
41	4	4	2.6667		
41	15.5	15.5	10.333		
41	160.2	37.2	24.8		
41	7.38	7.38	4.92		
41	9.93	9.93	6.62		
41	9.87	9.87	6.58		
41	6	6	4		
41	12.86	12.86	7.5017		
41	8.23	8.23	4.8008		
41	17.99	17.99	10.494		
41	8.75	8.75	5.1042		
41	19.46	19.46	11.352		
41	8.68	8.68	5.0633		
41	12.97	12.97	7.5658		
41	49.7	35.62	20.778		
41	11	11	6.4167		
41	22.24	22.24	12.973		
41	26.65	26.65	15.546		
41	15.45	15.45	9.0125		
41	20.73	20.73	12.093		
41	12.1	12.1	7.0583		
41	14.41	14.41	8.4058		
41	12.1	12.1	7.0583		
41	23.6	23.6	13.767		
41	57.29	36.12	21.07		
41	6.5	6.5	3.7917		
41	12.33	12.33	7.1925		
41	9.37	9.37	5.4658		
41	14.71	14.71	8.5808		
41	5.48	5.48	3.1967		
41	19.14	19.14	11.165		
41	6.62	6.62	3.8617		
41	20.7	20.7	12.075		
41	14.7	14.7	8.575		
41	14.09	14.09	8.2192		
41	11.9	11.9	6.9417		
41	16.79	16.79	8.395		
41	6.58	6.58	3.29		
41	6.04	6.04	3.02		
41	14.73	14.73	7.365		
41	11.9	11.9	5.95		
41	11.35	11.35	5.675		
41	8.98	8.98	4.49		
42	32.02	32.02	16.01	197.255	N4216
42	22.9	22.9	11.45		
42	21.83	21.83	10.915		

42	14.22	14.22	7.11		
42	15.44	15.44	7.72		
42	9.65	9.65	4.825		
42	13.33	13.33	6.665		
42	9.26	9.26	4.63		
42	21.43	21.43	10.715		
42	18.29	18.29	9.145		
42	7.2	7.2	3.6		
42	22.8	22.8	11.4		
42	14.92	14.92	7.46		
42	24.69	24.69	12.345		
42	10.89	10.89	5.445		
42	14.5	14.5	7.25		
42	627.56	31.39	15.695		
42	6.9	6.9	3.45		
42	116.8	29.23	14.615		
42	16.4	16.4	8.2		
42	13.4	13.4	6.7		
42	6	6	3		
42	17.82	17.82	8.91		
43	9.81	9.81	9.81	311.122	N4217
43	227.1	32.35	16.175		
43	4.64	4.64	2.32		
43	15.5	15.5	6.4583		
43	0	0	0		
43	7.22	7.22	3.0083		
43	8	8	3.3333		
43	13.76	13.76	5.7333		
43	13.91	13.91	5.7958		
43	0	0	0		
43	6.8	6.8	2.8333		
43	11.59	11.59	4.8292		
43	14.93	14.93	6.2208		
43	14	14	5.8333		
43	5.6	5.6	2.3333		
43	15.3	15.3	6.375		
43	116.4	29.13	12.138		
43	6.8	6.8	2.8333		
43	17	17	7.0833		
43	20.5	20.5	8.5417		
43	42.91	34.11	14.213		
43	59	27.68	11.533		
43	47.6	30.61	12.754		
43	2.6	2.6	1.0833		
43	17.21	17.21	7.1708		
43	9.7	9.7	4.0417		
43	9.2	9.2	3.8333		

43	10.8	10.8	4.5		
43	167.2	36.67	15.279		
43	14.05	14.05	5.8542		
43	10	10	4.1667		
43	11.41	11.41	4.7542		
43	20.8	20.8	8.6667		
43	3.4	3.4	1.1333		
43	19.11	19.11	6.37		
43	15.61	15.61	5.2033		
43	17.71	17.71	5.9033		
43	27.7	27.7	9.2333		
43	21	21	7		
43	11.9	11.9	3.9667		
43	0	0	0		
43	12.11	12.11	4.0367		
43	34	33.89	11.297		
43	22.4	22.4	7.4667		
43	12.76	12.76	4.2533		
43	11.3	11.3	3.7667		
43	36.7	36.7	12.233		
43	7.56	7.56	2.52		
43	3.1	3.1	1.0333		
43	14.8	14.8	4.9333		
43	15	15	5		
43	11.39	11.39	3.7967		
43	7.41	7.41	2.47		
44	15.23	15.23	5.0767	166.5408	N4218
44	26.3	26.3	6.575		
44	26.89	26.89	6.7225		
44	23.4	23.4	5.85		
44	17.66	17.66	4.415		
44	6.22	6.22	1.555		
44	12.77	12.77	3.1925		
44	23.73	23.73	5.9325		
44	14.4	14.4	3.6		
44	8.21	8.21	2.0525		
44	13.66	13.66	3.415		
44	13.41	13.41	3.3525		
44	16.5	16.5	4.125		
44	0	0	0		
44	4.4	4.4	1.1		
44	1	1	0.25		
44	44.6	30.97	7.7425		
44	18.11	18.11	4.5275		
44	11.24	11.24	2.81		
44	11.3	11.3	2.825		
44	8.5	8.5	2.125		

44	12.15	12.15	3.0375		
44	0	0	0		
44	14.64	14.64	3.66		
44	7.93	7.93	1.9825		
44	25.9	25.9	4.3167		
44	7.18	7.18	1.1967		
44	14.3	14.3	2.3833		
44	19.37	19.37	3.2283		
44	15.33	15.33	2.555		
44	24.6	24.6	4.1		
44	15.28	15.28	2.5467		
44	24.45	24.45	4.075		
44	4.4	4.4	0.7333		
44	15.59	15.59	2.5983		
44	21.2	21.2	3.5333		
44	16.3	16.3	2.7167		
44	23.9	23.9	3.9833		
44	11.94	11.94	1.99		
44	17.27	17.27	2.8783		
44	20	20	3.3333		
44	10.7	10.7	1.7833		
44	13.33	13.33	2.2217		
44	15.29	15.29	1.2742		
44	13.2	13.2	1.1		
44	17.39	17.39	1.4492		
44	10.21	10.21	0.8508		
44	13.94	13.94	1.1617		
44	17.66	17.66	1.4717		
44	25.31	25.31	2.1092		
44	1	1	0.0833		
44	9.57	9.57	0.7975		
44	9.79	9.79	0.8158		
44	56.77	32.2	2.6833		
44	6.85	6.85	0.5708		
44	5.87	5.87	0.4892		
44	23.49	23.49	1.9575		
44	13.7	13.7	1.1417		
44	12.47	2.7	0.225		
44	23.68	23.68	1.9733		
44	24.17	24.17	2.0142		
44	17.04	17.04	1.42		
44	8.03	8.03	0.6692		
44	11.23	11.23	0.9358		
44	9.33	9.33	0.7775		
44	19.54	19.54	1.6283		
44	13.45	13.45	1.1208		
44	20.68	20.68	1.7233		

TOTAL 44196.905

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
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**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

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

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

For ALL TERRITORY

NET METERING RIDER RIDER NM
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**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

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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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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.

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

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: \_\_\_\_\_

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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

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



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

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

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

For ALL TERRITORY

NET METERING RIDER RIDER NM
--------------------------------

**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**

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

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

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

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

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

For ALL TERRITORY

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

DATE EFFECTIVE September 16, 2020 FILED

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

**Highly CONFIDENTIAL**

**ATTACHMENT 8:**  
**AFFIDAVIT OF COMPLIANCE WITH 2021**  
**COMPLIANCE PLAN**

The Empire District Electric Company  
Liberty Utilities  
2021 Annual RES Compliance Report  
HIGHLY CONFIDENTIAL 20 CSR 4240-2.135(4)

On April 15, 2021, The Empire District Electric Company filed a Compliance Plan outlining our plan to comply with the Renewable Energy Standard for the years of 2021-2023.

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. In order to meet the increased compliance requirement in 2021, EDE also utilized generation from Meridian Way Windfarm. In addition, generation from EDE-owned Kings Point and North Fork Ridge were required to meet the compliance obligation due to NARR registration lag. EDE retired 542,454 vintage 2020 and 2021 RECs from the facilities listed above in order to meet the 2021 non-solar compliance requirements.

EDE retired 40,636 customer generated SRECs for compliance with the solar requirement.

The 2022 RES Compliance Plan states that EDE will continue to utilize non-solar RECs generated by the Ozark Beach facility, the Elk River Wind Farm, and the Meridian Way Windfarm. EDE will utilize solar SRECs from customer-generated sources for solar-sourced compliance. EDE may also use RECs from owned wind or solar generation for compliance in the future.

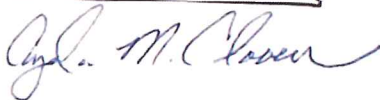
The total costs for meeting the 2021 annual Missouri RES are as follows:

Resource	Cost
Ozark Beach, Kings Point, North Fork Ridge Generation	-0-
Solar Customer Generation Rebates	\$1,112,174
NAR Administration	\$34,539
RRI Calculations, Modeling	\$7,500
Elk River & Meridian Way PPA, Compliance Portion	**\$ **

On this date, 4/4/2022, 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

ANGELA M CLOVEN  
Notary Public - Notary Seal  
State of Missouri  
Commissioned for Jasper County  
My Commission Expires: November 06, 2023  
Commission Number: 15262659



**2022-2031 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2023-2032 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2024-2033 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2025-2034 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2026-2035 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2027-2036 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2028-2037 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2029-2038 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2030-2039 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover

**2031-2040 RRI Calculation Period**

Baseline Revenue Requirement (\$MM)  
Annual 1% (\$MM)

Actual Costs of Compliance

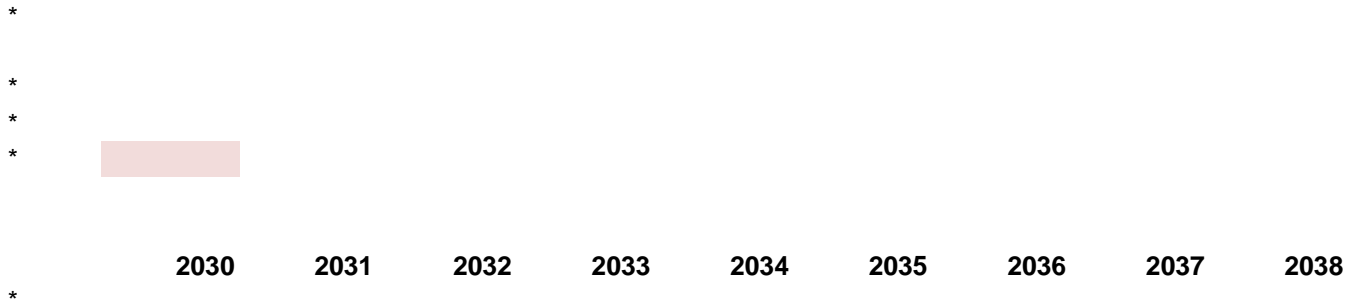
Annual Over (Under)  
Plus Prior Carryover  
Cumulative Carryover



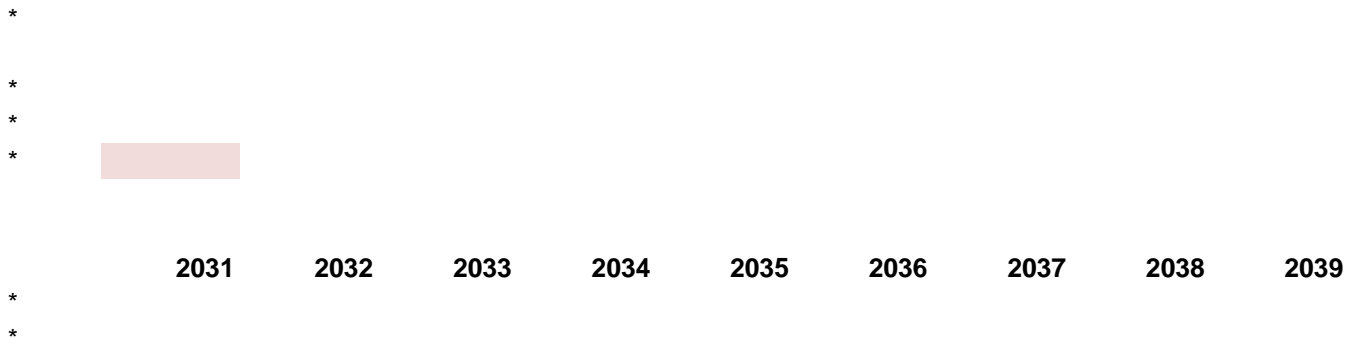




Less Carryover  
Adjusted "B"



Less Carryover  
Adjusted "B"



Less Carryover  
Adjusted "B"



<b>2031</b>	10-Year "Budget"	Cumulative Budget (2022-2031)
*	-	-
*		
		Cumulative Costs (2022-2031)
*	-	0.00
*		
*		
*		

Rule

<b>2032</b>	10-Year "Budget"	Cumulative Budget (2022-2032)
*	-	-
*		
over	0.00	
Budget"	0.00	Cumulative Costs (2022-2032)
*	0.00	0.00
*		
*		

Rule

Rule

<b>2033</b>	10-Year "Budget"	Cumulative Budget (2022-2033)
*	-	-
*		
over	0.00	
Budget"	0.00	Cumulative Costs (2022-2033)
*	0.00	0.00
*		
*		
*		

Rule

Rule

Rule

<b>2034</b>	10-Year "Budget"	Cumulative Budget (2022-2034)
*	-	-
*		
over	0.00	

"Budget"	0.00	Cumulative
*	0.00	Costs (2022-2034)
*		0.00 *
*		
*		

<b>2035</b>	10-Year	Cumulative
*	"Budget"	Budget (2022-2035)
*	-	- *
over	0.00	
"Budget"	0.00	Cumulative
*	0.00	Costs (2022-2035)
*	0.00	0.00 *
*		
*		

<b>2036</b>	10-Year	Cumulative
*	"Budget"	Budget (2022-2036)
*	-	- *
over	0.00	
"Budget"	0.00	Cumulative
*	0.00	Costs (2022-2036)
*	0.00	0.00 *
*		
*		

<b>2037</b>	10-Year	Cumulative
*	"Budget"	Budget (2022-2037)
*	-	- *
over	0.00	
"Budget"	0.00	Cumulative
*	0.00	Costs (2022-2037)
*	0.00	0.00 *
*		
*		

<b>2038</b>	10-Year	Cumulative
*	"Budget"	Budget (2022-2038)
*	-	- *

over	0.00	
budget"	0.00	Cumulative
*	0.00	Costs (2022-2038)
		0.00 *
*		
*		
*		

**2039**

*	10-Year	Cumulative
	"Budget"	Budget (2022-2039)
	-	- *
over	0.00	
budget"	0.00	Cumulative
*	0.00	Costs (2022-2039)
		0.00 *
*		
*		
*		

**2040**

*	10-Year	Cumulative
	"Budget"	Budget (2022-2040)
	-	- *
over	0.00	
budget"	0.00	Cumulative
*	0.00	Costs (2022-2040)
		0.00 *
*		
*		
*		

2022-2031 RRI Calculation		2022	2023	2024	2025
RRI Budget (2022-2031)	*	-	-	-	-
Actual Compliance Spend (2022-2031)	*	-	-	-	-
Revenue Requirement (2022-2031)	*	-	-	-	-
Budget (% of RR)	*				
Actual Compliance Spend (% of RR)	*				

⌘ (5)(D)		2022	2023	2024	2025
Plan_1	*				
Plan_1No RES	*				
Net Cost (Savings)					

⌘ (5)(D)		2023	2024	2025	2026
Plan_1	*				
Plan_1No RES	*				
Net Cost (Savings)					

⌘ (5)(D)		2024	2025	2026	2027
Plan_1	*				
Plan_1No RES	*				
Net Cost (Savings)					

⌘ (5)(D)		2025	2026	2027	2028
Plan_1	*				
Plan_1No RES	*				
Net Cost (Savings)					

⌘ (5)(D)		2026	2027	2028	2029
Plan_1	*				
Plan_1No RES	*				
Net Cost (Savings)					

⌘ (5)(D)		2027	2028	2029	2030
Plan_1	*				
Plan_1No RES	*				
Net Cost (Savings)					





2026	2027	2028	2029	2030	2031	Total
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

\*  
\*  
\*  
\*  
\*

2026	2027	2028	2029	2030	2031	10-Year Avg RR
------	------	------	------	------	------	----------------

\*  
\*  
\*

2027	2028	2029	2030	2031	2032	10-Year Avg RR
------	------	------	------	------	------	----------------

\*  
\*  
\*

2028	2029	2030	2031	2032	2033	10-Year Avg RR
------	------	------	------	------	------	----------------

\*  
\*  
\*

2029	2030	2031	2032	2033	2034	10-Year Avg RR
------	------	------	------	------	------	----------------

\*  
\*  
\*

2030	2031	2032	2033	2034	2035	10-Year Avg RR
------	------	------	------	------	------	----------------

\*  
\*  
\*

2031	2032	2033	2034	2035	2036	10-Year Avg RR
------	------	------	------	------	------	----------------

\*  
\*  
\*



The Empire District Electric Company – Liberty Utilities Central  
 2022 RES RRI Filing 20 CSR 4240-20.100  
 CONFIDENTIAL

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

#### 2022 RES Retail Rate Impact (“RRI”) Filing

The Empire District Electric Company – Liberty Utilities Central (“Liberty-Empire”) intends to file its 2022 Missouri triennial Integrated Resource Plan compliance filing (“2022 IRP”) on April 1, 2022 in File No. EO-2021-0331. The 2022 IRP represents Liberty-Empire’s most recent electric utility resource planning analysis. Pursuant to 20 CSR 4240-22.100 (the “Rule”), Liberty-Empire used the 2022 IRP analysis to develop the assumptions regarding projected renewable energy resource additions.

Liberty-Empire’s 2022 RES RRI analysis contained herein calculates the retail rate impact (“RRI”) on an incremental basis for each planning year based on procurement or development of renewable energy resources averaged over the next ten (10) years. The RES RRI is calculated by subtracting the total retail revenue requirement incorporating 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.

Section 5(B) of the Rule states that the non-renewable generation and purchase power portfolio shall be determined by adding, to the utility’s existing generation and purchased power resource portfolio excluding all renewable resources, additional non-renewable resources sufficient to meet the utility’s needs on a least-cost basis for the next ten (10) years. Consistent with the Rule, Liberty-Empire defined the non-renewable generation and purchased power portfolio (“Plan 1 – No RES”) as the utility’s existing generation and purchased power resource portfolio excluding all renewable resources except those owned or contracted prior to September 30, 2010,<sup>1</sup> plus additional non-renewable resources sufficient to meet the utility’s needs on a least-cost basis for the next ten years. To develop the Plan 1 – No RES portfolio, Liberty-Empire removed the following renewable resources from Liberty-Empire’s existing portfolio:

Resource Name	Resource Type	ICAP MW by 2041
Neosho Ridge	Wind	301
North Fork Ridge	Wind	149
Kings Point	Wind	149
Prosperity Solar	Dist. Solar	2.5

To maintain a minimum capacity margin of 12% over the modeling horizon, 60 MW natural gas reciprocating engine (“RICE”) was added in 2022, 30 MW RICE was added in 2025, 180 MW RICE was added in 2035, 30 MW RICE was added in 2037, and 240 MW of a natural gas combustion turbine (“CT”) frame was added in 2039.

Rule 5(B) states that the RES-compliant portfolio shall be determined by adding to the utility’s existing generation and purchased power resource portfolio an amount of least cost renewable resources sufficient to achieve RES requirements and an amount of least-cost non-renewable resources, the combination of which is sufficient to meet the utility’s needs for the next ten (10) years. Because Liberty-Empire’s existing portfolio including all renewable resources already more than achieves RES requirements, Liberty-Empire added to the current existing portfolio a least-cost amount of non-renewable resources (“Plan 1”). To maintain a minimum capacity margin of 12% over the modeling horizon, Plan 1

<sup>1</sup> Pursuant to Rule Section 5(A), because the Ozark Beach hydro facility, the Meridian Way Windfarm PPA and the Elk River Windfarm PPA were all owned or contracted prior to September 30, 2010, they were kept in the non-renewable generation and purchase power portfolio.

adds 30 MW RICE in 2025, 150 MW RICE in 2035, and 240 MW CT Frame. Relative to Plan 1 – No RES, Plan 1 also includes 600 MW wind in 2020-2021.

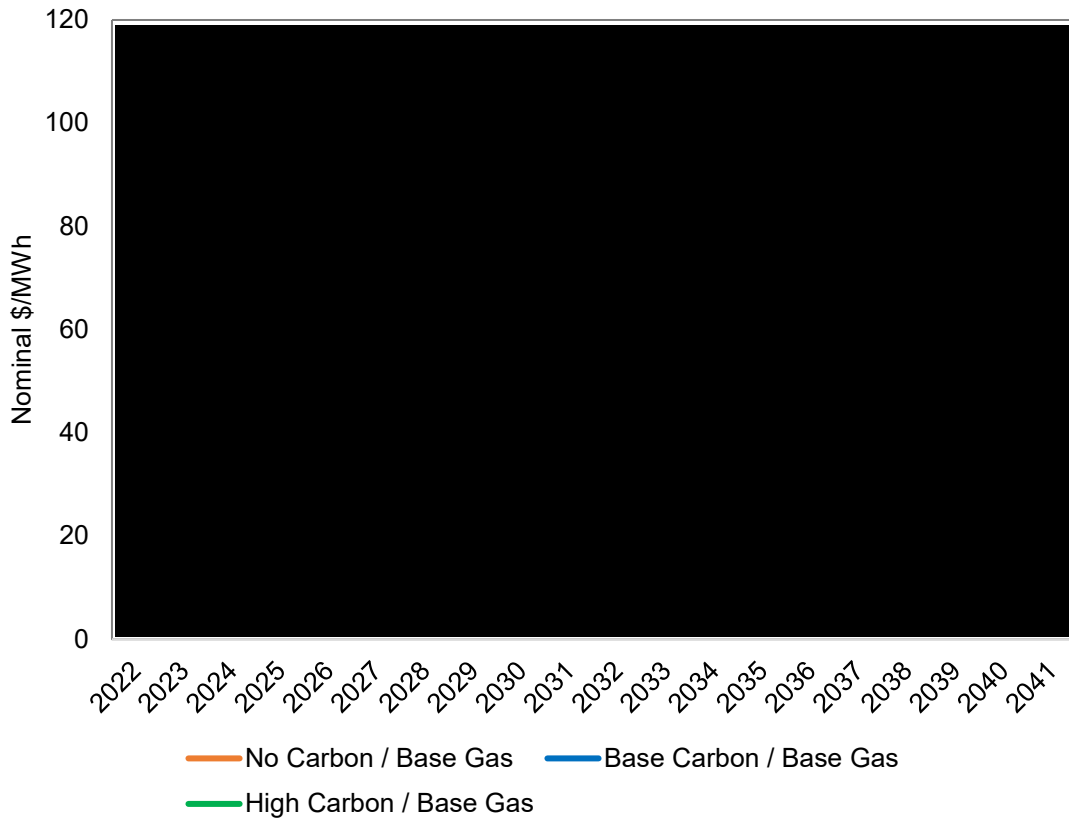
Rule Section 5(B)4 states that the assumptions for this filing should utilize the most recent electricity utility resource planning analysis. Liberty-Empire used power market prices, natural gas fuel prices, and emissions prices from its most recent electric utility resource planning analysis assumptions. Consistent with the 2022 IRP, a 20% probability weighting was given to the Low carbon emissions cost scenario and a 40% probability weighting was given to both the Base and High carbon emissions cost scenarios.

Table 1 includes the expected value of costs associated with carbon emissions used in this analysis. Figure 1 includes forecast power prices for the EDE\_EDE load node with and without the impact of a carbon tax.

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

	Carbon Tax (\$Nom/Short Ton)			Expected Value
	No Carbon - 20%	Base Carbon - 40%	High Carbon – 40%	
2021	-	-	-	-
2022	-	-	-	-
2023	-	-	*	*
2024	-	-	*	*
2025	-	*	*	*
2026	-	*	*	*
2027	-	*	*	*
2028	-	*	*	*
2029	-	*	*	*
2030	-	*	*	*
2031	-	*	*	*
2032	-	*	*	*
2033	-	*	*	*
2034	-	*	*	*
2035	-	*	*	*
2036	-	*	*	*
2037	-	*	*	*
2038	-	*	*	*
2039	-	*	*	*
2040	-	*	*	*

\* Exhibit 2 EDE\_EDE Annual Average Power Prices (Nom\$/MWh) CONFIDENTIAL INFORMATION



**Results:**

The following table shows the calculation for the average 10-year compliance spend over the 10-year period (2022-2031) as required by Rule 5(B). The RRI Budget is calculated as 1% of the Plan 8 Revenue Requirement. Actual Compliance Spend is calculated as the difference between the PVRRs of Plan 1 – No RES and Plan 1 in each year. The average Actual Compliance Spend for the 10-year period exceeds the budgeted 1% RRI for the 10-year period due to the addition of 600 MW already existing wind in Plan 1 relative to Plan 1 – No RES. However, the excess amount of 0.1% is relatively minor relative to the 1% threshold.

This has been revised from the original filing which showed a higher RES RRI of 9.6%. The original filing was based on a 2022 beginning of year plant in service book value of \$1,131M for the Neosho Ridge, North Fork Ridge, and Kings Point wind projects, an amount representative of the full capital cost of wind not accounting for the value of the federal Production Tax Credit. The revised RES RRI of 1.1% is based on a 2022 beginning of year plant in service book value of \$621M for the same wind projects, representative of a capital cost of wind which accounts for the tax equity value generated by the federal Production Tax Credit. The lower book value drives a lower RES RRI.

\* Exhibit 3: 2022-2031 Annual Revenue Requirements and RES Compliance Spend

CONFIDENTIAL INFORMATION

<i>Dollars in millions</i>	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
RRI Budget (2022-2031)	*	*	*	*	*	*	*	*	*	*	*
Actual Compliance Spend (2022-2031)	*	*	*	*	*	*	*	*	*	*	*
Revenue Requirement (2022-2031)	*	*	*	*	*	*	*	*	*	*	*
Budget (% of RR)	*	*	*	*	*	*	*	*	*	*	*
Actual Compliance Spend (% of RR)	*	*	*	*	*	*	*	*	*	*	*

The Empire District Electric Company – Liberty Utilities Central  
 2022 RES RRI Filing 20 CSR 4240-20.100  
 CONFIDENTIAL

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

*\* Exhibit 4 2022-2031 RRI Calculation Period CONFIDENTIAL INFORMATION*

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

*\* Exhibit 5 2023-2032 RRI Calculation Period CONFIDENTIAL INFORMATION*

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

*\* Exhibit 6 2024-2033 RRI Calculation Period CONFIDENTIAL INFORMATION*

2024-2033 RRI Calculation Period		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 7 2025-2034 RRI Calculation Period CONFIDENTIAL INFORMATION*

2025-2034 RRI Calculation Period		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 8 2026-2035 RRI Calculation Period CONFIDENTIAL INFORMATION*

2026-2035 RRI Calculation Period		2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 9 2027-2036 RRI Calculation Period CONFIDENTIAL INFORMATION*

2027-2036 RRI Calculation Period		2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 10 2028-2037 RRI Calculation Period CONFIDENTIAL INFORMATION*

2028-2037 RRI Calculation Period		2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 11 2029-2038 RRI Calculation Period CONFIDENTIAL INFORMATION*

2029-2038 RRI Calculation Period		2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 12 2030-2039 RRI Calculation Period CONFIDENTIAL INFORMATION*

2030-2039 RRI Calculation Period		2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											

*\* Exhibit 13 2031-2040 RRI Calculation Period CONFIDENTIAL INFORMATION*

2031-2040 RRI Calculation Period		2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	10-Year	Cumulative
	Baseline Revenue Requirement (\$MM)	[REDACTED]											
	Annual 1% (\$MM)	[REDACTED]											
		[REDACTED]											
	Actual Costs of Compliance	[REDACTED]											
	Annual Over (Under)	[REDACTED]											
	Plus Prior Carryover	[REDACTED]											
	Cumulative Carryover	[REDACTED]											