

THE EMPIRE DISTRICT ELECTRIC COMPANY

ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE PLAN FOR YEARS 2026-2028

Prepared in Compliance with 20 CSR 4240-20.100

April 2026

****Indicates Highly Confidential****

Indicates Confidential



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2025 ANNUAL RENEWABLE ENERGY STANDARD COMPLIANCE PLAN

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 ("Liberty-Empire" or "Company") is filing the Annual Renewable Energy Standard (RES) Compliance Plan. The rule became effective in September 2010, and pursuant to the rule, the Company is directed to file the RES Compliance Plan on or before April 15 for the current year and subsequent two calendar years.

Liberty-Empire began to develop its wind renewable energy portfolio on December 10, 2004, when it entered into a 20-year contract with Elk River Windfarm, LLC (owned by Avangrid Renewables) to purchase all of the energy generated at the 150-megawatt (MW) Elk River Windfarm located in Butler County, Kansas. Liberty-Empire renewed its agreement with Avangrid on July 28, 2025 for an additional 4.5 years. On June 19, 2007, Liberty-Empire enhanced its renewable energy portfolio when it entered 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, Liberty-Empire purchases all the output from the 105- MW Phase 1 Meridian Way Wind Farm located in Cloud County, Kansas. In addition, the Ozark Beach Hydroelectric Project (Ozark Beach), owned by the Company, has produced renewable hydropower for many years. Historically, through purchased power agreements or owned generation, Liberty-Empire's wind and hydro renewable energy resources have provided adequate renewable energy to comply with the non-solar RES requirements in the past.

The solar component of the RES requires compliance which can only be met with Solar Renewable Energy Credits (SRECs) or energy from solar generation resources. Liberty-Empire will meet the solar RES compliance obligation through customer-generated SRECs. Effective May 16, 2015, Liberty-Empire began offering rebates for Missouri customers for qualifying solar installations in accordance with the Missouri RES and Liberty Empire's Solar Rebate Rider approved by the Commission. The solar rebate program has been discontinued for new

customers. The solar rebates for customers must have been received and completed prior to August 6, 2023, and operational by December 31, 2023. This requirement will continue to be in place for future compliance obligations.

At the end of 2020, construction of the North Fork Ridge Wind project was completed. This 149-MW facility located in Missouri and started generating RECs in December of 2020. In addition to this new Wind 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 additions fulfilled the Commission-approved Customer Savings Plan. Liberty-Empire also completed the addition of the 2.2-MW Prosperity Solar Farm in 2021; however, this facility will not be utilized for compliance.

The renewable energy available in Liberty-Empire's compliance-available portfolio includes generation by Elk River Windfarm, Kings Point Wind, Meridian Way Wind, Neosho Ridge Wind, North Fork Ridge Wind, Ozark Beach, and customer-generated solar which can be used for future compliance with the standard.

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

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

Non-solar Compliance

20 CSR 4240-20.100 provides the procedure by which utilities must meet statutory obligations for renewable energy. Missouri law required that by 2011, electric companies must either generate, purchase energy, or purchase renewable energy credits (RECs) equal to at least 2 percent of the electricity they sell to retail customers from renewable sources. That percentage increased to the current 15 percent in 2021. The regulation also requires the utilization of a commission designated third-party registry for REC accounting, as such the North American Renewable Registry (NARR) is utilized for tracking Liberty-Empire's retirements for Missouri compliance.

This year and in the subsequent two years, Liberty-Empire plans to comply with the non-solar portion of the RES through contracts with Neosho Ridge Wind, North Fork Ridge Wind, Kings Point Wind, Elk River Windfarm, Meridian Way Wind Farm and/or generation from its Ozark Beach Hydroelectric facility.

Liberty-Empire owns the Ozark Beach Hydroelectric plant which generates approximately 54,000 megawatt-hours (MWh) each year. Since this facility is in Missouri, Liberty-Empire is allowed to claim the amount of MWhs generated plus an additional twenty-five hundredths (0.25) credits, as authorized by subsection (3)(G) of this rule. Consequently, Ozark Beach generation counts as one and twenty-five hundredths (1.25) RECs for purposes of compliance with this rule as allowed by 20 CSR 4240-20.100 (3) (G).

Under this same rule, Kings Point Wind Project (annual output approximately 600,000 MWh) and North Fork Ridge Wind Project (annual output approximately 575,000 MWh) are eligible for the Missouri-sourced multiplier.

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

Table 1: Projected Non-Solar Compliance

Time Period	RES	Mo Retail Sales (MWh)	Non Solar Resources ¹							Total Non-Solar	Total RES Requirement ³
			Elk River	Meridian Way	Ozark Beach	North Fork Ridge Wind	Kings Point Wind	Neosho Ridge Wind	Total Potential ²		
2026	15%	4,544,513	330,905	153,692	46,274	536,246	566,175	1,260,294	2,893,587	668,043	681,677
2027	15%	3,999,247	293,379	156,526	46,284	536,150	566,431	1,261,063	2,859,834	587,889	599,887
2028	15%	3,710,878	234,319	144,483	46,345	536,451	566,449	1,260,861	2,788,908	545,499	556,632

¹Expected average operation; Ozark Beach, North Fork Ridge Wind, Kings Point Wind includes 1.25 credit for Missouri sources.

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

³ Both Non solar and Solar will make up the total RES requirement

Solar Compliance

Liberty-Empire filed a tariff to establish solar rebate payment procedures and to revise its net metering tariffs to accommodate the payment of solar rebates which became effective on May

16, 2015. Under the terms of the tariff, Liberty-Empire received SRECs from its electric customers who installed or are installing net metered solar facilities at their homes and/or businesses according to the solar rebate tariff and net metering requirements.

For 2026 compliance, Liberty-Empire expects to obtain SRECs transferred from qualified customer-generators operational solar electric systems as a condition of receiving the solar rebate. SRECs produced from these solar electric systems will be transferred to Liberty-Empire for a period of 10 years. Generation from these customer-owned facilities would be eligible for application of the 1.25 factor as these facilities are located in Missouri. SRECs generated by these systems will be used for the dedicated solar compliance component but can also be used for general renewable energy compliance. In the future, (2026-2028) Liberty-Empire will use customer-generated SRECs or banked SRECs. Liberty-Empire will also evaluate and monitor the feasibility and economics of constructing and operating additional utility scale solar generation.

Table 2: Projected Solar Compliance

Time Period	RES	MO Retail Sales (MWh)	Solar RES Requirement	Customer Generated
2026	0.30%	4,544,513	13,634	40,320
2027	0.30%	3,999,247	11,998	35,957
2028	0.30%	3,710,878	11,133	35,992

Source: 2024-2028 Revenue Budget

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

Liberty-Empire’s executed renewable energy contracts includes the two 20-year agreements for the output from Elk River Windfarm and Meridian Way Cloud County Wind Farm. Liberty-Empire anticipates annual generation of approximately 286,201 MWhs for Elk River and approximately 151,567 MWhs for Meridian Way.

The effective date of the Elk River agreement was December 10, 2004, and the effective date of the Meridian Way agreement was June 19, 2007. Unless otherwise terminated in accordance with contract stipulations each of those agreements will remain in full force for a term ending at midnight local time on the 20th anniversary of each facility’s respective completion date. Please note on July 28th, 2025 Liberty and Avangrid agreed to an extension of 4.5 years. ATTACHMENT 1 indicates the wind generation allocation for Missouri retail customers. Additional information on the wind energy purchases and sales can be found in the HIGHLY CONFIDENTIAL ATTACHMENT 2.

In 2025, Liberty-Empire did not execute payments for additional solar customer generated rebates. The Company does not expect to annually execute payments for customer generated rebates during the 2026 - 2028 timeframe.

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

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

Table 3: Liberty-Empire’s Projected Retail Sales and RES Requirements

Time Period	RES	MO Retail Sales (MWh)	Solar RES Requirement	Customer Generated
2026	0.30%	4,544,513	13,634	40,320
2027	0.30%	3,999,247	11,998	35,957
2028	0.30%	3,710,878	11,133	35,992

Source: 2024-2028 Revenue Budget

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

Liberty-Empire will fully meet the RES compliance requirements for 2026, 2027, and 2028 with its current purchased power contracts, hydroelectric facility, customer-generated solar energy, and owned wind and solar generation. Therefore, there is no difference between the RES Compliance Plan and the 2025 filing of the Integrated Resource Plan (IRP). Liberty-Empire continues to include a section in the IRP which discusses the potential impact or proposed changes to Renewable Energy Standards would have on Liberty-Empire. Regardless of the outcome of proposed changes, in the future, Liberty-Empire will continue to retain a sufficient number of RECs and SRECs to meet any current or future RES.

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

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

To comply with solar-specific compliance, the purchase of SRECs through an industry broker is currently the least expensive alternative. However, Liberty-Empire expects to utilize SRECs transferred from qualified customer-generator systems for compliance obligations.

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

The retail rate impact was calculated by comparing non-renewable generation portfolio to a RES-compliant portfolio with sufficient renewable resources to achieve the renewable standards. Liberty-Empire has performed this rate impact calculation in accordance with Section (5) Retail Rate Impact. For each year of the 2026-2028 RES Compliance Plan period, the annual retail rate impact for compliance is limited to a maximum of 1% of the 10-year average non-RES compliant revenue requirement.

Costs associated with Liberty-Empire's current or anticipated RES compliance are associated with (1) the registration of assets and RECs in the NARR, (2) costs associated with retirement of RECs, (3) the value of RECs from purchased power agreements that are used for compliance, (4) costs associated with solar rebates, and (5) costs associated with the retail rate impact

modeling and calculations. Costs incurred for 2025 compliance totaled \$63,917.49 for the registration, retirement, and associated costs of REC and SREC management and reporting. The purchase price of the amount of wind energy necessary for 2025 compliance totaled **[REDACTED]**. This amount reflects assets that are currently included in Liberty-Empire's portfolio through purchased power agreements and does not reflect an additional cost as they were contracted prior to the commencement of the RES. These resources will be used in the future for compliance, as needed. The Company's base rates reflect a representative level of renewable registry costs. The addition of wind resources will not be required for the period of 2026 to 2028 as current wind resources are adequate to meet compliance obligations. However, as we move towards a lower carbon future, additional renewable energy resources will be added to the Company's portfolio.

The total compliance cost for 2025 was *[REDACTED]*. Liberty-Empire will use the generation from our Ozark Beach hydro facility, energy from the windfarm purchased power agreements, owned renewable energy resources, and solar energy from customer-generated facilities but Liberty-Empire does not expect to exceed the rate cap. CONFIDENTIAL ATTACHMENT 3 further explains the retail rate impact calculations.

It is important to note the rate cap calculation is *purely* a mathematical exercise and is not associated with current rates, current generation assets or even current finalized environmental rules.

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

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

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