

Ameren Missouri's  
Response to OPC Data Request - OPC  
ER-2024-0319

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Adjust Its Revenues  
for Electric Service

No.: OPC 2024

Please indicate any and all curtailment restrictions that have been in place at the High Prairie Renewable Energy Center. In this response, please indicate the nature of the restriction (e.g., full curtailment, etc...), the period of time (e.g., April to October), and hours of the day (e.g., 5pm to 5am).

**RESPONSE**

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**Title: Director, Environmental Services**  
**Date: 11-18-2024**

**2022**

For 2022, please refer to Table 1-1 from the Annual Report (High Prairie PCM Report\_12-15-2022.pdf – previously provided). The turbines that were operating were at 8.0 m/s + EchoSense at night.

During the monitoring period, 1-10 of the turbines operated on select nights under limited nighttime operations, which is summarized below in Table 1-1 and shown on Figure 1.

**Table 1-1. Summary of operational protocols (from 45 minutes before sunset to 45 minutes after sunrise) from April 1 through October 31, 2022, at the High Prairie Renewable Energy Center, Schuyler and Adair Counties, Missouri.**

Date(s)	Number of Turbines Operating	Number of Turbines Not Operating at Night
April 1 – August 9	0	175
August 10 – August 27	1	174
August 28 – September 18	0	175
September 19 – September 29	5	170
September 30 – October 11	0	175
October 12 – October 16	5	170
October 17 – October 31	10	165

**2023**

For 2023, please refer to Table 1-1 from the Annual Report (High Prairie PCM Report\_12122023.pdf – previously provided).

**Table 1-1. Summary of nighttime operations from April 1 through October 31, 2023, at the High Prairie Renewable Energy Center, Schuyler and Adair Counties, Missouri.**

Date(s)	Number of Turbines Operating	Number of Turbines Not Operating at Night	Curtailment
April 1 – April 23	20	155	8.0 m/s + EchoSense
April 24 – September 17	32	143	8.0 m/s + EchoSense
September 18 – September 25	50	125	8.0 m/s + EchoSense
September 26 - October 31	0	175	No nighttime operations

**2024**

**Table 1. Summary of nighttime operations at the High Prairie Renewable Energy Center, Adair and Schuyler counties, Missouri, during the spring and summer monitoring seasons (April 1 – August 15, 2024).**

Season	Date Range	Number of Turbines Operating at Night	Number of Turbines Not Operating at Night
Spring	April 1 – April 27	50	125
	April 28 – May 14	0	174
	May 15	0	174
Summer	May 16 – May 28	50	124
	May 29 – June 2	75	99
	June 3 – June 9	78 <sup>1</sup>	96
	June 10	0	174
	June 11 – August 15	48	126

<sup>1</sup>. Three turbines (E-10, E-11, H-07) were operating at night but were not searched due to unanticipated access constraints. These turbines operated from May 29-June 9 only since access constraints are still ongoing.

Season	Date Range	Number of Turbines Operating at Night	Number of Turbines Not Operating at Night
Fall	August 16 – August 25	48	126
	August 25 – October 31	0	173

The Table above serves as a summary of fall operations at High Prairie. The site was curtailed on August 25<sup>th</sup> due to a turbine collapse. The site remained curtailed during nighttime hours for the rest of the 2024 bat season due to this issue.

During 2022 and 2023 there were no periods of daytime curtailment outside of routine scheduled and unscheduled site maintenance.

During 2024 there were periods of daytime curtailment that were related to the turbine collapses on site. Following the collapse of High Prairie wind turbine G-08, the site was fully stopped from April 28 – May 16. Following the collapse of High Prairie wind turbine B-11, the site was fully stopped on August 25. Twelve wind turbines were restarted on August 30, and full operations returned to the remainder of the site on September 10. Following the collapse of High Prairie wind turbine C-12, the site was fully stopped on October 31. Twelve wind turbines were restarted on November 5.