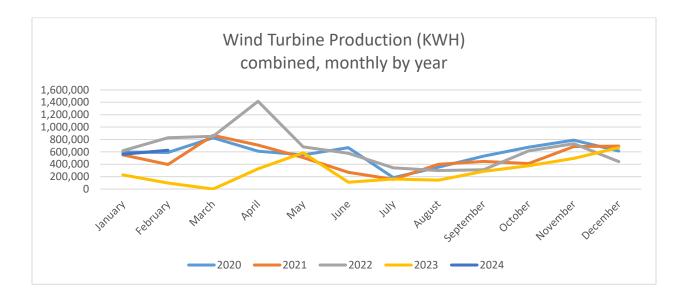
Willmar O Municipal Utilities 🌣

WILLMAR MUNICIPAL UTILITIES February 2024 Wind Turbine Report

"Willmar Municipal Utilities will provide safe, reliable & quality utility services at competitive rates for their customers."



Annual Costs/kWh YTD: \$0.0080 Cumulative kWh: \$0.1455

	Production (KWH)		Availability (%)		Total	Major Outages	
	#3	#4	#3	#4	KWH	Major Outages	
Feb 2024	286,725	339,778	79.2	98.8	626,503	Buss Coupler Comm. Faults	
Jan 2024	250,485	275,564	99.3	95.2	562,049		
Dec 2023	311,167	357,380	98.6	96.9	668,547		
Nov 2023	183,550	312,355	72.3	89.0	495,905	#3 Hydraulic Leak/Comm. Fault	
Oct 2023	93,138	282,214	29.0	76.6	375,352	#3 Hydraulic Leak	
Sept 2023	119,259	167,641	57.5	83.1	286,900	Positioning Sensor/Annual Maint.	
Aug 2023	24,590	119,144	35.5	61.4	143,734	Positioning Sensor	
July 2023	96,562	64,030	94.1	67.9	160,592	Positioning Sensor, Ether-cat Faults	
June 2023	41,562	68,613	42.0	52.0	110,175	#3 Pitch sensor #4 Elec.Faults/Coupler	
May 2023	244,122	341,882	72.0	89.8	586,004		
April 2023	-	326,944	0.0	64.5	326,944	#3 Breaker Failure	
Mar 2023	-	-	0.0	0.0	-	#3,#4 Breaker Failure	
Feb 2023	92,772	3,640	25.3	41.6	96,412	#3,#4 Breaker Failure	
2023 Total	1,651,160	2,655,545			4,342,705		

Month	2020	2021	2022	2023	2024
January	598,668	551,509	619,722	229,638	562,049
February	590,960	397,869	828,786	96,412	626,503
March	827,205	866,500	851,870	0	
April	611,169	709,639	1,416,112	326,944	
May	552,522	509,051	680,683	586,004	
June	667,898	269,811	578,540	110,175	
July	184,774	156,572	343,435	160,592	
August	352,244	400,452	298,933	143,734	
September	531,071	444,730	311,668	286,900	
October	675,543	413,446	616,414	375,352	
November	788,202	685,170	733,123	495,905	
December	613,308	693 <i>,</i> 954	444,245	668,547	
Total	6,993,564	6,098,703	7,723,531	3,480,203	1,188,552

