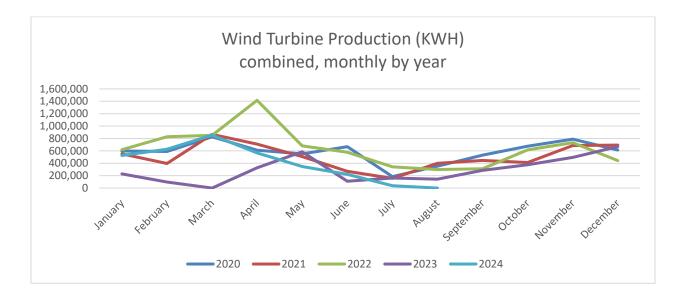
## Municipal Utilities 🌣

## Willmar O WILLMAR MUNICIPAL UTILITIES Aug 2024 Wind Turbine Report

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



Annual Costs/kWh YTD: \$0.0204 Cumulative kWh: \$0.1432

	Production (KWH)		Availability (%)		Total	Major Outogos	
	#3	#4	#3	#4	KWH	Major Outages	
Aug 2024	-	-	0.0	0.0	-	#4 Electrical, #3 Nacelle Housing	
July 2024	-	39,007	0.0	12.0	39,007	#4 Electrical, #3 Nacelle Housing	
June 2024	176,007	45,376	86.0	27.9	221,383	#4 Electrical, #3 Nacelle Housing	
May 2024	347,166	-	99.9	12.9	347,166	#4 Electrical Issues	
April 2024	404,869	163,143	79.2	49.8	568,012	#4 Generator overspeed fault	
Mar 2024	441,062	413,069	98.3	89.0	854,131		
Feb 2024	286,725	339,778	79.2	98.8	626,503	#3 Buss Coupler Comm. Faults	
Jan 2024	250,485	275,564	99.3	95.2	526,049		
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	
2024 Total	2,638,018	2,514,671			5,152,689		

Month	2020	2021	2022	2023	2024
January	598 <i>,</i> 668	551,509	619,722	229,638	526,049
February	590 <i>,</i> 960	397 <i>,</i> 869	828,786	96,412	626,503
March	827,205	866,500	851,870	0	854,131
April	611,169	709,639	1,416,112	326,944	568,012
May	552,522	509,051	680,683	586,004	347,166
June	667,898	269,811	578,540	110,175	221,383
July	184,774	156,572	343,435	160,592	39,007
August	352,244	400,452	298,933	143,734	0
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	3,182,251

