



Cooper Farms' Wind VW

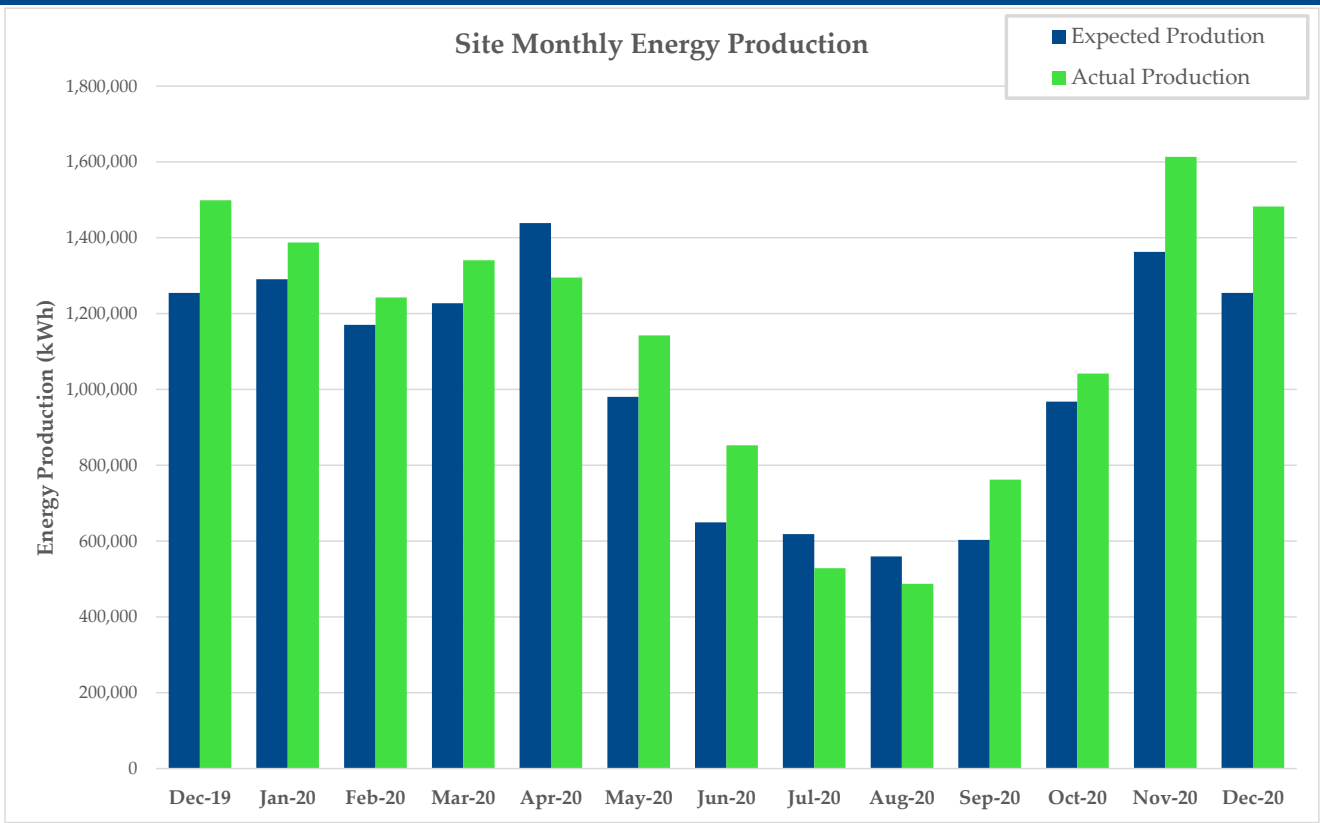
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
Dec-19	1,254,397	1,498,820	512,000	495,240	491,580
Jan-20	1,290,968	1,387,580	464,970	466,460	456,150
Feb-20	1,170,349	1,242,370	420,920	399,500	421,950
Mar-20	1,227,217	1,340,920	444,790	447,690	448,440
Apr-20	1,438,497	1,295,130	436,050	428,960	430,120
May-20	980,450	1,142,460	377,910	378,900	385,650
Jun-20	649,158	852,346	272,591	295,318	284,437
Jul-20	618,687	528,832	180,643	167,948	180,241
Aug-20	559,508	487,140	165,460	156,070	165,610
Sep-20	603,085	761,895	258,867	246,913	256,115
Oct-20	967,926	1,041,670	339,478	352,779	349,413
Nov-20	1,362,692	1,613,799	539,279	530,443	544,077
Dec-20	1,254,397	1,482,516	499,090	482,621	500,805
Production 2020 (ytd) (kWh)	12,122,935	13,176,658	4,400,048	4,353,602	4,423,008
Total Production (kWh)*	12,122,935	13,176,658	4,400,048	4,353,602	4,423,008
Capacity Factor*	33.33%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

December-2020



Monthly Report

December-2020



C. Safety Summary

	This Month	Project Cumulative
Recordable Incident(s)	0	0
Near Miss(es)	0	0

D. Planned Maintenance Events

Date	Event	Duration (hr)	Turbine
March-2021	Goldwind 8.5 Year Maintenance	~8	WTG 1
March-2021	Goldwind 8.5 Year Maintenance	~8	WTG 2
March-2021	Goldwind 8.5 Year Maintenance	~8	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hrs)	Turbine
12/10-11/2020	Operator Maintenance/Turbine Fault	Unplanned	34.57	WTG 1
12/10-11/2020	Operator Maintenance/Turbine Fault	Unplanned	32.82	WTG 2
12/10-11/2020	Operator Maintenance/Turbine Fault	Unplanned	32.38	WTG 3

F. Turbine Availability & Downtime

Availability	This Month	Year To Date
WTG 1	100.00%	99.71%
WTG 2	100.00%	99.72%
WTG 3	100.00%	99.53%
Avg	100.00%	99.66%

Downtime (hr)	This Month	Year To Date
WTG 1	34.57	162.23
WTG 2	32.82	167.01
WTG 3	32.38	208.65
Total	99.77	537.89

G. Wind Speed & Capacity Factor**

Wind Speed (mph)	This Month	2020 Annual
WTG 1	15.84	14.59
WTG 2	14.13	12.44
WTG 3	14.50	12.71
Estimated	14.23	13.39

Capacity Factor (%)	This Month	2020 Annual
WTG 1	44.72%	33.86%
WTG 2	43.25%	33.50%
WTG 3	44.88%	34.03%
Low Estimate	37.80%	28.72%

H. Report Notes and Comments

**Data includes estimated production, wind speed, and capacity factor values for June, July, September, and October 2020 due to loss of communications.