



Cooper Farms' Wind VW

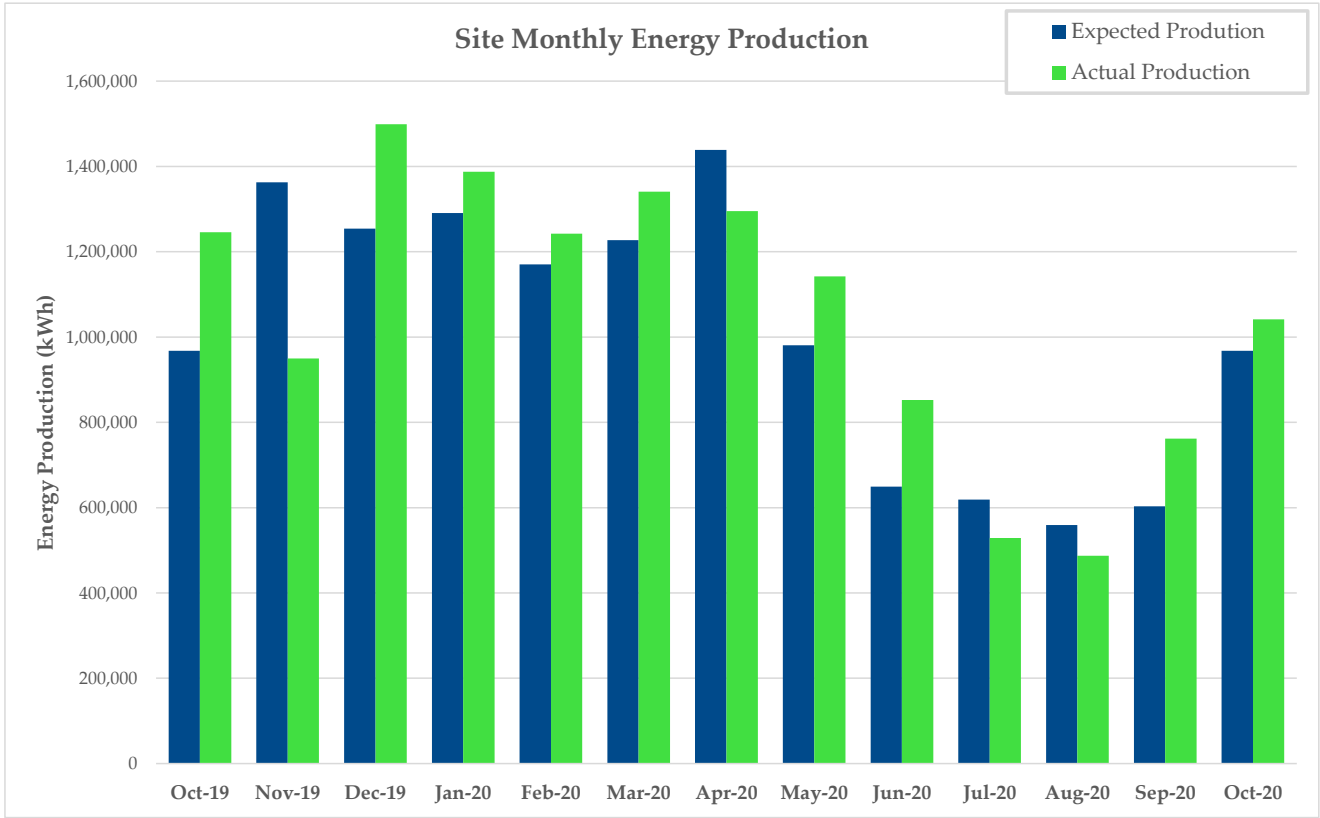
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
Oct-19	967,926	1,245,578	439,840	409,100	396,638
Nov-19	1,362,692	949,912	322,750	306,104	321,058
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
Production 2020 (ytd) (kWh)	9,505,846	10,080,343	3,361,679	3,340,538	3,378,126
Total Production (kWh)*	12,122,935	12,529,075	4,196,429	4,141,882	4,190,764
Capacity Factor*	31.70% *Value calculated over the last 12 months				

B. Site Energy Production Graph

October-2020



Monthly Report

October-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
9/18/2020	Goldwind 8 Year Maintenance	Planned	4.19	WTG 1
9/18/2020	Goldwind 8 Year Maintenance	Planned	5.18	WTG 2
9/21/2020	Goldwind 8 Year Maintenance	Planned	2.89	WTG 2
9/22/2020	Goldwind 8 Year Maintenance	Planned	7.21	WTG 3
9/23/2020	Goldwind 8 Year Maintenance	Planned	1.85	WTG 1
9/23/2020	Goldwind 8 Year Maintenance	Planned	1.90	WTG 2
9/23/2020	Goldwind 8 Year Maintenance	Planned	1.80	WTG 3
9/26-28/2020	Grid Fault	Unplanned	38.24	WTG 3
9/29-30/2020	Software Update	Unplanned	21.67	WTG 2

F. Turbine Availability & Downtime***

Availability	This Month	Year To Date
WTG 1	100.00%	99.66%
WTG 2	100.00%	99.66%
WTG 3	100.00%	99.44%
Avg	100.00%	99.59%

Downtime (hr)	This Month	Year To Date
WTG 1	3.33	119.28
WTG 2	2.94	125.81
WTG 3	2.83	167.89
Total	9.10	412.98

G. Wind Speed & Capacity Factor**

Wind Speed (mph)	This Month	2020 Annual
WTG 1	14.56	14.16
WTG 2	12.01	11.96
WTG 3	12.37	12.21
Estimated	13.89	13.39

Capacity Factor (%)	This Month	2020 Annual
WTG 1	30.42%	31.13%
WTG 2	31.61%	30.93%
WTG 3	31.31%	31.28%
Low Estimate	25.82%	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.

*** After review, reported September Downtime and availability was accurate. September maintenance events are listed above.