



Cooper Farms' Wind VW

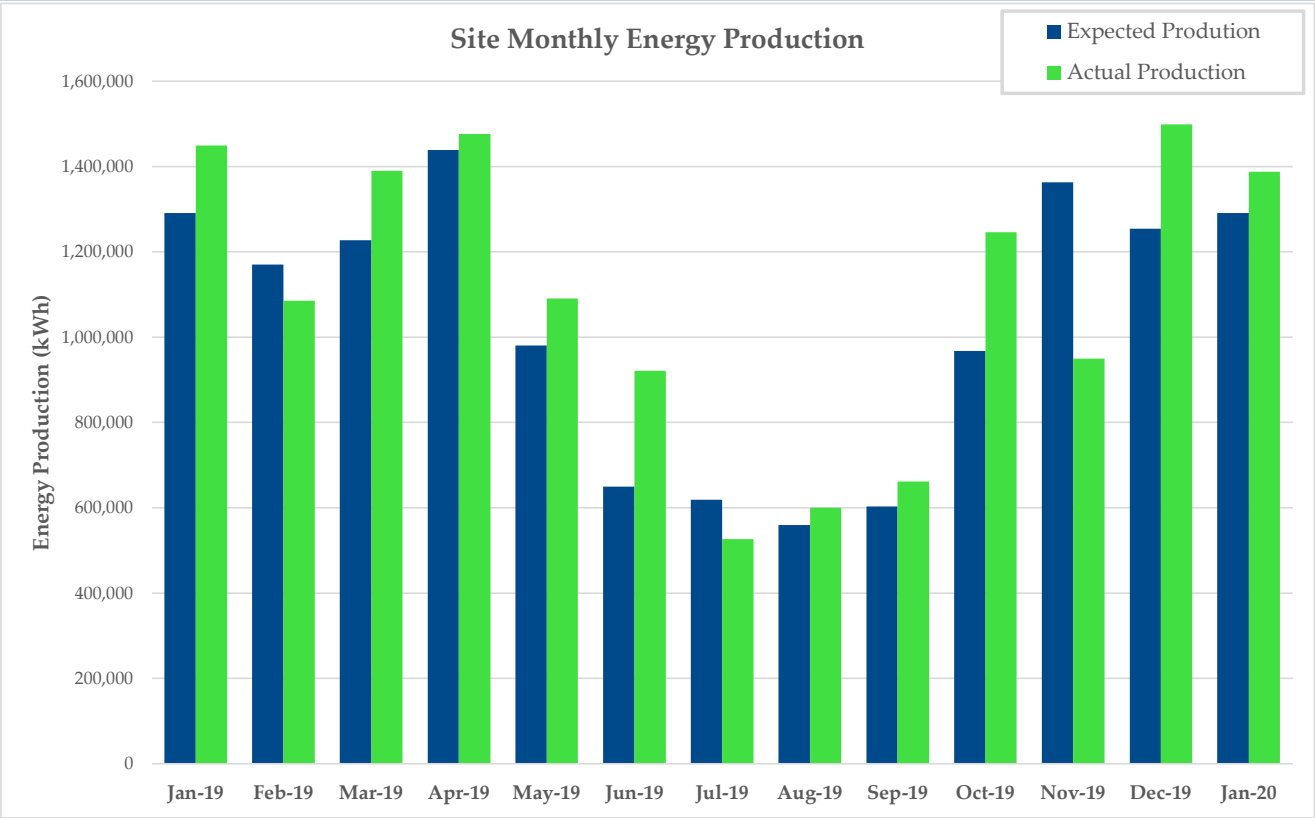
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
Jan-19	1,290,968	1,449,160	491,430	475,470	482,260
Feb-19	1,170,349	1,085,536	358,334	356,884	370,318
Mar-19	1,227,217	1,390,286	471,222	450,690	468,374
Apr-19	1,438,497	1,476,210	495,410	493,970	486,830
May-19	980,450	1,090,450	368,640	351,610	370,200
Jun-19	649,158	921,230	304,100	301,760	315,370
Jul-19	618,687	526,810	179,780	167,330	179,700
Aug-19	559,508	600,600	200,850	197,710	202,040
Sep-19	603,085	661,430	222,160	210,200	229,070
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
Production 2020 (ytd) (kWh)	1,290,968	1,387,580	464,970	466,460	456,150
Total Production (kWh)*	12,122,935	12,834,442	4,340,056	4,207,058	4,287,328
Capacity Factor*	32.56%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

January-2020



Monthly Report

January-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
February-2020	Goldwind 7.5 Year Maintenance	~8	WTG 1
February-2020	Goldwind 7.5 Year Maintenance	~8	WTG 2
February-2020	Goldwind 7.5 Year Maintenance	~8	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hrs)	Turbine
1/11-12/2020	High Wind Event	Unplanned	4.50	WTG 1, 2, 3
1/12-13/2020	Generator Fuse Error	Unplanned	28.99	WTG 3

F. Turbine Availability & Downtime

Availability	This Month	Year To Date
WTG 1	100.00%	100.00%
WTG 2	99.99%	99.99%
WTG 3	96.10%	96.10%
Avg	98.70%	98.70%

Downtime (hr)	This Month	Year To Date
WTG 1	6.01	6.01
WTG 2	6.49	6.49
WTG 3	33.80	33.80
Total	46.30	46.30

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2020 Annual
WTG 1	14.84	14.84
WTG 2	13.45	13.45
WTG 3	13.65	13.65
Estimated	15.49	13.39

Capacity Factor (%)	This Month	2020 Annual
WTG 1	41.66%	41.66%
WTG 2	41.80%	41.80%
WTG 3	40.87%	40.87%
Low Estimate	34.17%	28.72%

H. Report Notes and Comments