



Cooper Farms' Wind VW

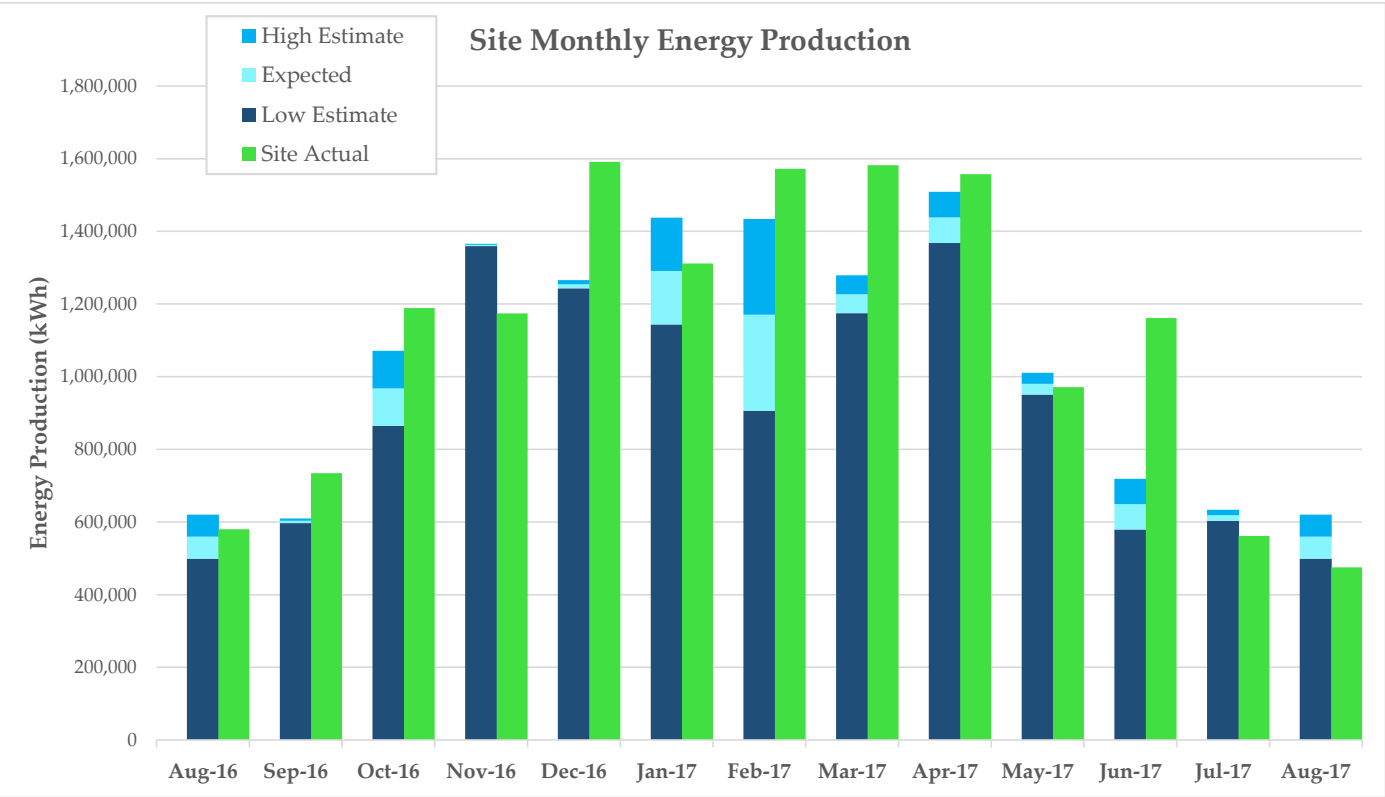
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
Aug-16	559,508	580,070	194,910	191,420	193,740
Sep-16	603,085	734,680	252,480	233,810	248,390
Oct-16	967,926	1,188,990	404,800	383,900	400,290
Nov-16	1,362,692	1,173,980	484,660	444,930	244,390
Dec-16	1,254,397	1,591,430	579,520	576,970	434,940
Jan-17	1,290,968	1,311,480	532,310	521,710	257,460
Feb-17	1,170,349	1,572,230	533,230	515,160	523,840
Mar-17	1,227,217	1,581,840	535,650	530,270	515,920
Apr-17	1,438,497	1,557,140	513,210	522,740	521,190
May-17	980,450	970,970	251,820	307,320	411,830
Jun-17	649,158	1,161,410	402,990	369,220	389,200
Jul-17	618,687	561,560	191,610	186,470	183,480
Aug-17	559,508	475,092	176,146	172,986	125,960
Production 2017 (ytd) (kWh)	7,934,835	9,191,722	3,136,966	3,125,876	2,928,880
Total Production (kWh)*	12,122,935	13,880,802	4,858,426	4,765,486	4,256,890
Capacity Factor*	35.21%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

August-2017



Monthly Report

August-2017



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
September-2017	Goldwind 5.5 year maintenance	~8	WTG 1
October-2017	Goldwind 5.5 year maintenance	~8	WTG 2
October-2017	Goldwind 5.5 year maintenance	~8	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
8/5-8/17/2017	Generator Replacement	Unplanned	287.48	WTG 3
8/17/2017	Grid Fault	Unplanned	4.46	WTG 1
8/17/2017	Grid Fault	Unplanned	6.31	WTG 2
8/28-8/29/2017	Grid Fault	Unplanned	17.09	WTG1
8/28-8/29/2017	Grid Fault	Unplanned	18.13	WTG 2
8/28-8/29/2017	Grid Fault	Unplanned	18.10	WTG 3

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG 1	100.00%	99.74%
WTG 2	100.00%	99.66%
WTG 3	61.36%	87.34%
Avg	87.12%	95.58%

Downtime (hr)	This Month	Year to Date
WTG 1	309.03	706.63
WTG 2	24.44	360.96
WTG 3	18.10	634.71
Total	351.57	1702.30

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2017 Annual
WTG 1	11.67	14.57
WTG 2	8.89	13.01
WTG 3	8.64	13.51
Estimated	11.09	13.39

Capacity Factor (%)	This Month	2017 Annual
WTG 1	15.78%	36.92%
WTG 2	15.50%	36.79%
WTG 3	11.29%	33.48%
Low Estimate	14.90%	28.70%

H. Report Notes and Comments