



Cooper Farms' Wind VW

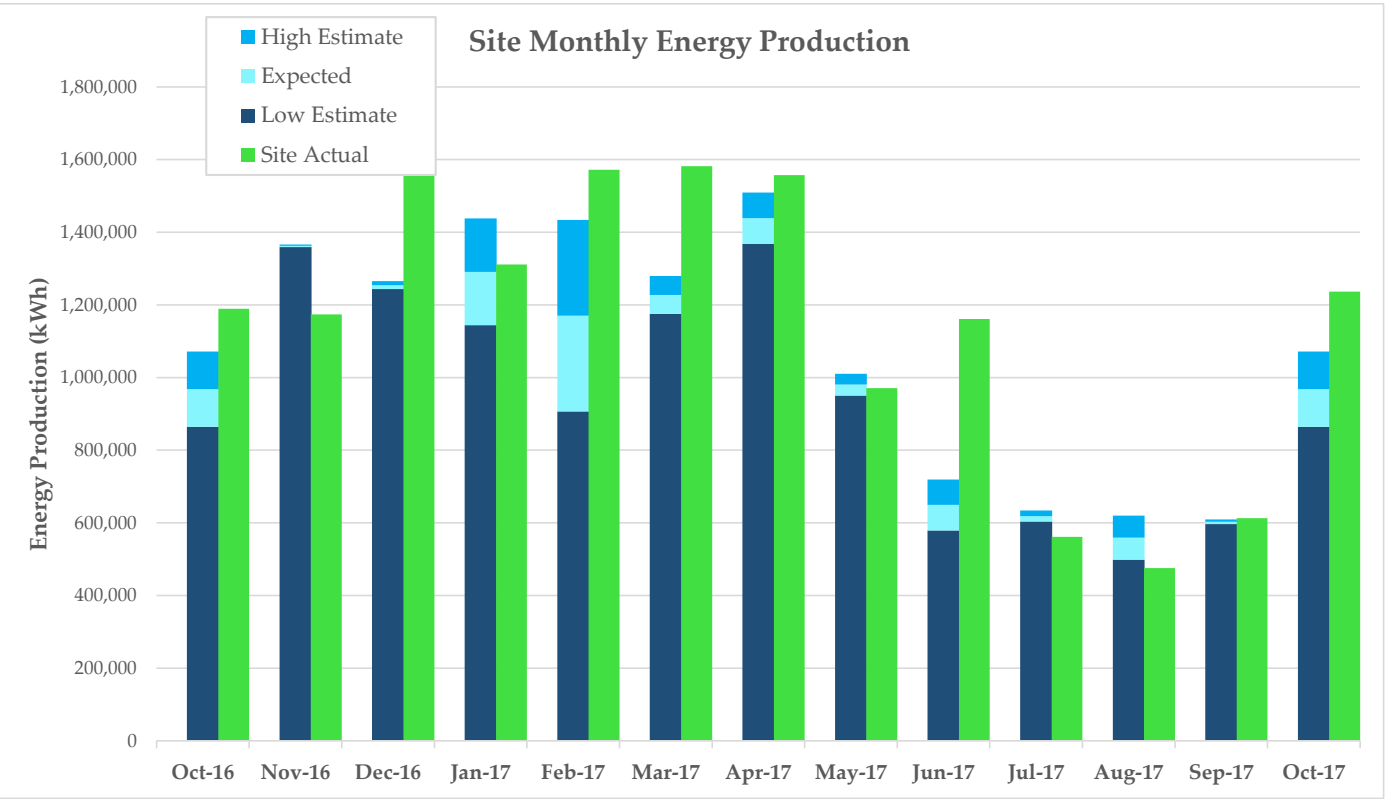
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
Oct-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
Sep-17	603,085	612,820	204,550	207,830	200,440
Oct-17	967,926	1,236,610	415,110	393,660	427,840
Production 2017 (ytd) (kWh)	9,505,846	11,041,152	3,756,626	3,727,366	3,557,160
Total Production (kWh)*	12,122,935	13,806,562	4,820,806	4,749,266	4,236,490
Capacity Factor*	35.02%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

October-2017



Monthly Report

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

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
10/22/2017	Goldwind 5.5 year maintenance	Planned	0.83	WTG 1
10/22/2017	Goldwind 5.5 year maintenance	Planned	0.91	WTG 2
10/22/2017	Goldwind 5.5 year maintenance	Planned	0.99	WTG 3
10/25-10/26/2017	Leading Edge/Blade Repair	Unplanned	30.06	WTG 2
10/28/2017	Leading Edge/Blade Repair	Unplanned	8.04	WTG 2
10/30-10/31/2017	Leading Edge/Blade Repair	Unplanned	19.81	WTG 2

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG 1	100.00%	99.80%
WTG 2	100.00%	99.72%
WTG 3	100.00%	89.88%
Avg	100.00%	96.47%

Downtime (hr)	This Month	Year to Date
WTG 1	3.04	711.00
WTG 2	61.01	423.46
WTG 3	3.01	655.49
Total	67.06	1789.95

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2017 Annual
WTG 1	14.43	14.22
WTG 2	12.80	12.67
WTG 3	13.61	13.21
Estimated	13.89	13.39

Capacity Factor (%)	This Month	2017 Annual
WTG 1	37.20%	35.13%
WTG 2	35.27%	34.86%
WTG 3	38.34%	32.50%
Low Estimate	25.82%	28.70%

H. Report Notes and Comments

**Goldwind 5.5 year maintenance to be completed in November-2017.