



Cooper Farms' Wind VW

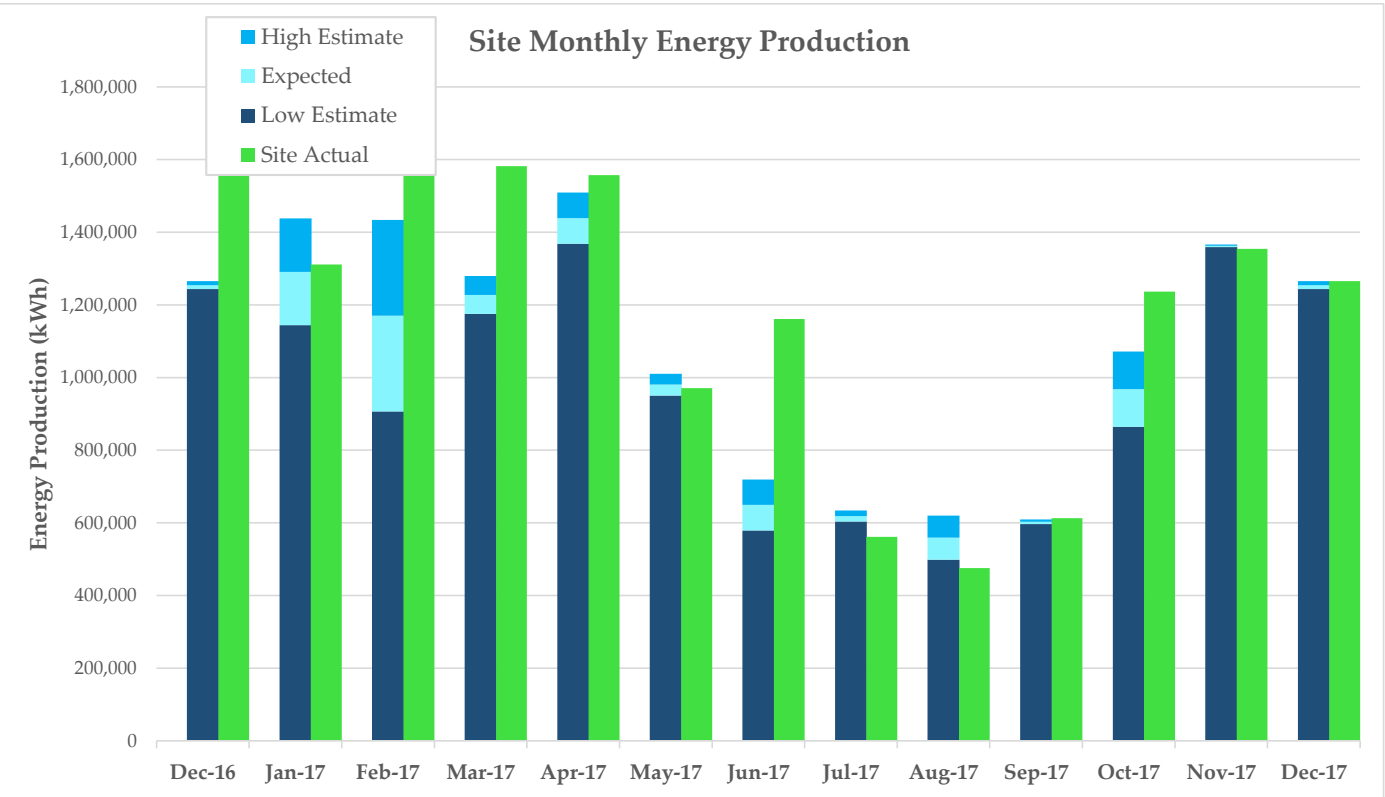
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
Dec-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
Nov-17	1,362,692	1,354,336	447,934	467,136	439,266
Dec-17	1,254,397	1,265,600	312,430	468,440	484,730
Production 2017 (ytd) (kWh)	12,122,935	13,661,088	4,516,990	4,662,942	4,481,156
Total Production (kWh)*	12,122,935	13,661,088	4,516,990	4,662,942	4,481,156
Capacity Factor*	34.66%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

December-2017



Monthly Report

December-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
January-2018	Goldwind 5.5 year maintenance	~8	WTG 1
January-2018	Goldwind 5.5 year maintenance	~8	WTG 2
January-2018	Goldwind 5.5 year maintenance	~8	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
12/15/2017	Cooper Backup Generator Testing	Unplanned	4.10	WTG 1
12/15/2017	Cooper Backup Generator Testing	Unplanned	4.51	WTG 2
12/27/2017	Hydraulic Oil Low Error	Unplanned	5.73	WTG 3

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG 1	100.00%	99.83%
WTG 2	99.95%	99.77%
WTG 3	99.23%	91.50%
Avg	99.73%	97.03%

Downtime (hr)	This Month	Year to Date
WTG 1	4.10	826.55
WTG 2	4.85	467.84
WTG 3	7.04	764.19
Total	15.99	2058.58

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2017 Annual
WTG 1	13.37	14.11
WTG 2	13.27	12.78
WTG 3	13.87	13.31
Estimated	14.23	13.39

Capacity Factor (%)	This Month	2017 Annual
WTG 1	28.00%	35.05%
WTG 2	41.97%	36.18%
WTG 3	43.43%	34.10%
Low Estimate	37.80%	28.70%

H. Report Notes and Comments

**Goldwind 5.5 year maintenance to be completed in January-2018.