



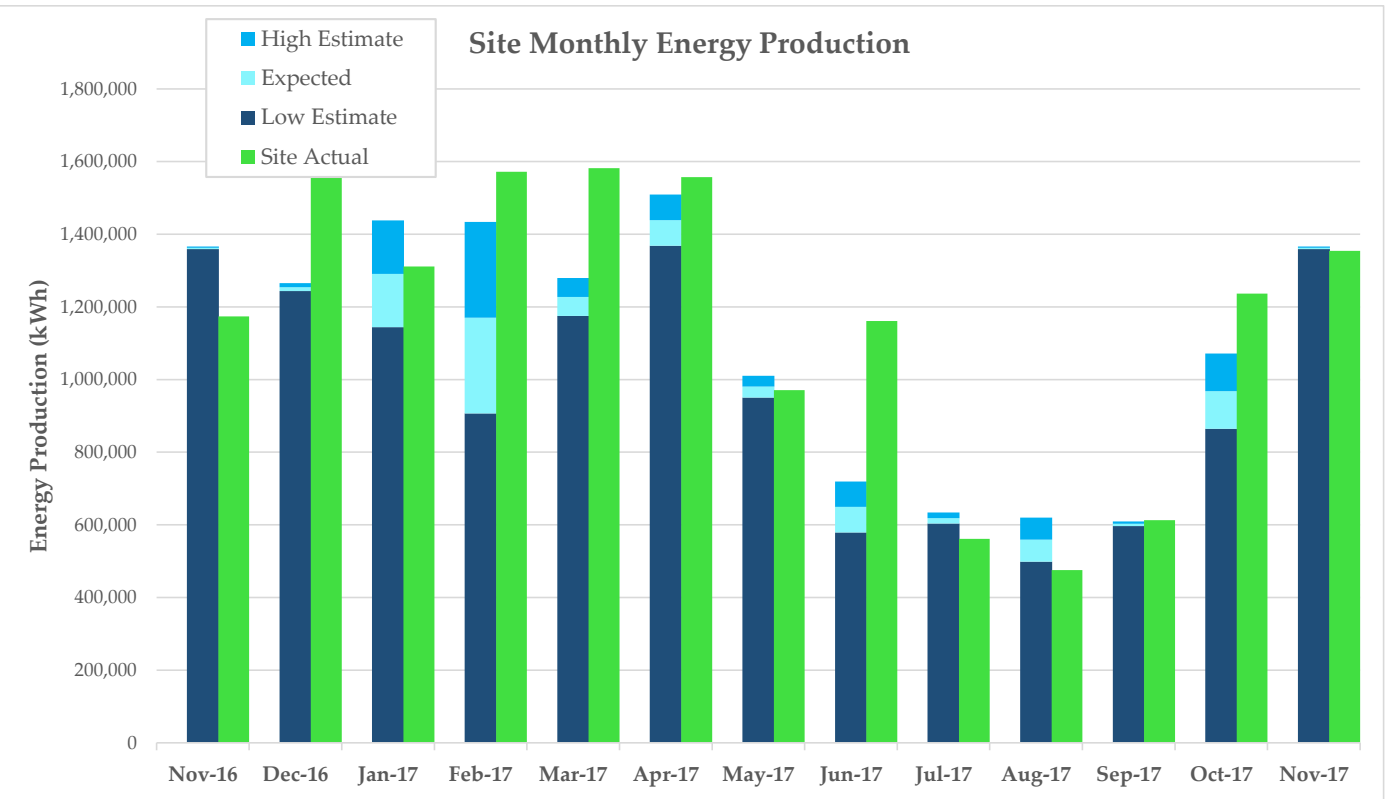
Cooper Farms' Wind VW

Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
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
Nov-17	1,362,692	1,354,336	447,934	467,136	439,266
Production 2017 (ytd) (kWh)	10,868,538	12,395,488	4,204,560	4,194,502	3,996,426
Total Production (kWh)*	12,122,935	13,986,918	4,784,080	4,771,472	4,431,366
Capacity Factor*	35.48%		*Value calculated over the last 12 months		

B. Site Energy Production Graph



Monthly Report

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

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
11/1-11/2/2017	Leading Edge Repair	Unplanned	26.43	WTG 1
11/5/2017	Severe Weather	Unplanned	6.52	WTG 1, 2, 3
11/6-11/8/2017	Leading Edge Repair	Unplanned	54.15	WTG 1
11/9/2017	Leading Edge Repair	Unplanned	6.63	WTG 2
11/11/2017	Leading Edge Repair	Unplanned	12.97	WTG 3
11/12/2017	Grid Outage	Unplanned	15.91	WTG 1, 2, 3
11/13/2017	Grid Outage	Unplanned	8.44	WTG 1
11/13/2017	Grid Outage and Start Up Issues	Unplanned	13.16	WTG 2
11/13/2017	Grid Outage and Start Up Issues	Unplanned	15.68	WTG 3
11/14/2017	Leading Edge Repair	Unplanned	11.62	WTG 3
11/17/2017	Leading Edge Repair	Unplanned	14.16	WTG 3
11/27-11/28/2017	Leading Edge Repair	Unplanned	18.17	WTG 3

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG 1	100.00%	99.81%
WTG 2	100.00%	99.75%
WTG 3	100.00%	90.79%
Avg	100.00%	96.78%

Downtime (hr)	This Month	Year to Date
WTG 1	111.45	822.45
WTG 2	39.53	462.99
WTG 3	101.66	757.15
Total	252.64	2042.59

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2017 Annual
WTG 1	13.75	14.18
WTG 2	13.41	12.74
WTG 3	13.73	13.26
Estimated	15.58	13.39

Capacity Factor (%)	This Month	2017 Annual
WTG 1	41.48%	35.72%
WTG 2	43.25%	35.63%
WTG 3	40.67%	33.24%
Low Estimate	41.95%	28.70%

H. Report Notes and Comments

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