



Cooper Farms' Wind VW

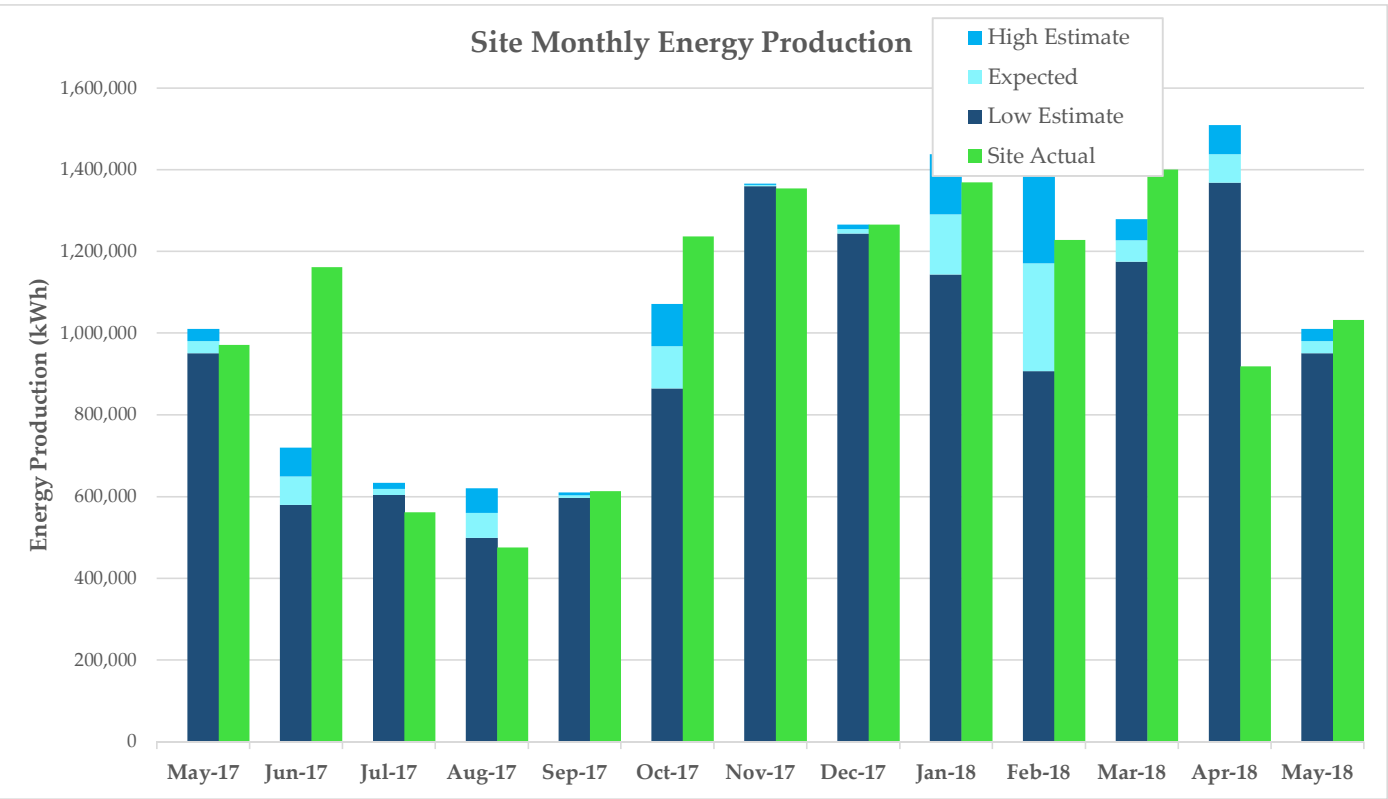
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
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
Jan-18	1,290,968	1,369,330	300,220	544,990	524,120
Feb-18	1,170,349	1,227,684	415,536	413,210	398,938
Mar-18	1,227,217	1,400,340	500,650	409,470	490,220
Apr-18	1,438,497	918,970	311,290	302,960	304,720
May-18	980,450	1,031,960	343,900	352,850	335,210
Production 2018 (ytd) (kWh)	6,107,481	5,948,284	1,871,596	2,023,480	2,053,208
Total Production (kWh)*	12,122,935	12,615,712	4,022,366	4,289,222	4,304,124
Capacity Factor*	32.00%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

May-2018



Monthly Report

May-2018



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
June-2018	Goldwind 6 Year Maintenance	~15	WTG 1
June-2018	Goldwind 6 Year Maintenance	~15	WTG 2
June-2018	Goldwind 6 Year Maintenance	~15	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
5/2/2018	Blade Pitch Angle Error	Unplanned	4.49	WTG 3
5/3/2018	Blade Pitch Angle Error	Unplanned	13.16	WTG 3
5/9/2018	Planned Outage	Planned	4.49	WTG 3
5/10/2018	Punchlist Completion	Unplanned	7.35	WTG 1
5/10/2018	Pitch Bearing Seal Replacement	Unplanned	7.83	WTG 2
5/16/2018	Punchlist Completion	Unplanned	9.90	WTG 1
5/19/2018	Grid Fault	Unplanned	7.94	WTG 3
5/24/2018	Blade Alignment	Unplanned	9.97	WTG 2
5/25/2018	Blade Alignment	Unplanned	12.18	WTG 1
5/25/2018	Blade Alignment	Unplanned	5.50	WTG 3
5/28/2018	Blade Alignment	Unplanned	4.03	WTG 3

F. Turbine Availability & Downtime*

Availability (%)	This Month	Year to Date
WTG 1	95.18%	98.96%
WTG 2	97.16%	99.34%
WTG 3	96.35%	99.18%
Avg	96.23%	99.16%

Downtime (hr)	This Month	Year to Date
WTG 1	41.28	327.33
WTG 2	29.60	309.82
WTG 3	51.59	353.32
Total	122.47	990.47

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2018 Annual
WTG 1	13.18	13.75
WTG 2	12.48	13.61
WTG 3	12.87	14.07
Estimated	13.57	13.39

Capacity Factor (%)	This Month	2018 Annual
WTG 1	30.82%	34.43%
WTG 2	31.62%	37.22%
WTG 3	30.04%	37.77%
Low Estimate	28.39%	28.70%

H. Report Notes and Comments

*April 2018 availability was 100%, 99.96%, and 100% for WTG 1, 2, and 3 and is included in Year to Date totals.