



Cooper Farms' Wind VW

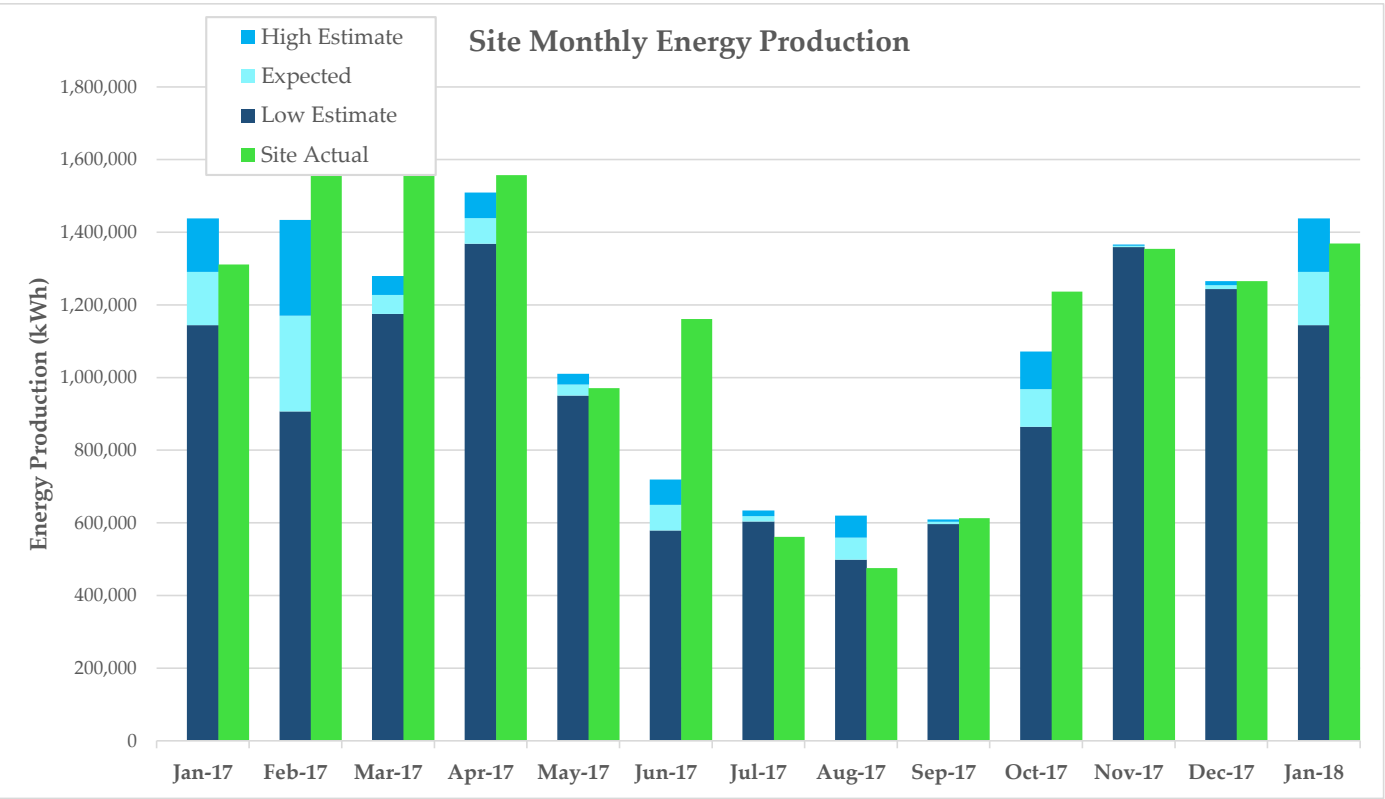
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
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
Jan-18	1,290,968	1,369,330	300,220	544,990	524,120
Production 2018 (ytd) (kWh)	1,290,968	1,369,330	300,220	544,990	524,120
Total Production (kWh)*	12,122,935	13,718,938	4,284,900	4,686,222	4,747,816
Capacity Factor*	34.80%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

January-2018



Monthly Report

January-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
1/8/2018	Icing Event	Unplanned	8.39	WTG 1
1/8/2018	Icing Event	Unplanned	6.45	WTG 2
1/8/2018	Icing Event	Unplanned	6.19	WTG 3
1/8/2018	Goldwind 5.5 Year Maintenance	Planned	0.55	WTG 1
1/8/2018	Goldwind 5.5 Year Maintenance	Planned	4.56	WTG 2
1/8/2018	Goldwind 5.5 Year Maintenance	Planned	5.52	WTG 3
1/10/2018	Goldwind 5.5 Year Maintenance	Planned	4.33	WTG 1
1/15-1/16/2018	Grid Fault	Unplanned	9.44	WTG 1, 2, 3
1/24-1/25/2018	Icing Event	Unplanned	22.54	WTG 1, 2, 3
1/29/2018	Grid Fault	Unplanned	7.09	WTG 3

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG 1	99.74%	99.74%
WTG 2	100.00%	100.00%
WTG 3	99.79%	99.79%
Avg	99.84%	99.84%

Downtime (hr)	This Month	Year to Date
WTG 1	48.85	48.85
WTG 2	46.01	46.01
WTG 3	62.99	62.99
Total	157.85	157.85

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2018 Annual
WTG 1	14.79	14.79
WTG 2	14.88	14.88
WTG 3	15.48	15.48
Estimated	15.49	13.39

Capacity Factor (%)	This Month	2018 Annual
WTG 1	26.90%	26.90%
WTG 2	48.83%	48.83%
WTG 3	46.96%	46.96%
Low Estimate	34.17%	28.70%

H. Report Notes and Comments