



Cooper Farms' Wind VW

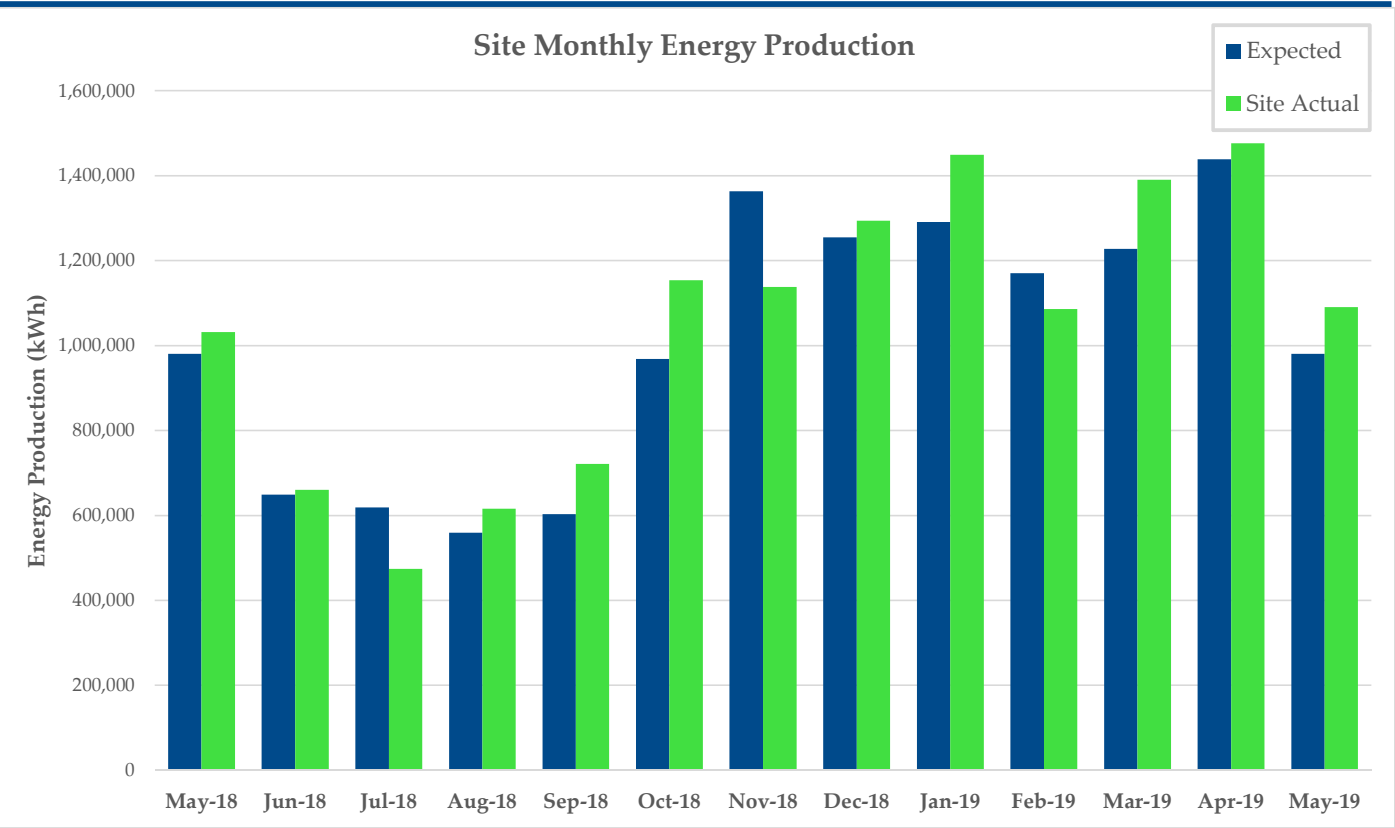
Van Wert, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
May-18	980,450	1,031,960	343,900	352,850	335,210
Jun-18	649,158	660,000	219,170	215,060	225,770
Jul-18	618,687	474,100	152,310	157,510	164,280
Aug-18	559,508	615,620	204,140	199,030	212,450
Sep-18	603,085	720,940	241,440	243,200	236,300
Oct-18	967,926	1,153,610	388,960	373,700	390,950
Nov-18	1,362,692	1,138,070	381,630	373,480	382,960
Dec-18	1,254,397	1,293,550	427,830	426,560	439,160
Jan-19	1,290,968	1,449,160	491,430	475,470	482,260
Feb-19	1,170,349	1,085,536	358,334	356,884	370,318
Mar-19	1,227,217	1,390,286	471,222	450,690	468,374
Apr-19	1,438,497	1,476,210	495,410	493,970	486,830
May-19	980,450	1,090,450	368,640	351,610	370,200
Production 2019 (ytd) (kWh)	6,107,481	6,491,642	2,185,036	2,128,624	2,177,982
Total Production (kWh)*	12,122,935	12,547,532	4,200,516	4,117,164	4,229,852
Capacity Factor*	31.83%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

May-2019



Monthly Report

May-2019



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
September-2019	Goldwind 7 Year Maintenance	~15	WTG 1
September-2019	Goldwind 7 Year Maintenance	~15	WTG 2
September-2019	Goldwind 7 Year Maintenance	~15	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
5/10/219	Grid Current Error	Unplanned	4.68	WTG 2
5/11/2019	Grid Current Error	Unplanned	8.69	WTG 2
5/28/2019	High Wind Event	Unplanned	6.97	WTG 1, 2, 3

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG 1	99.97%	99.81%
WTG 2	98.17%	98.96%
WTG 3	100.00%	100.00%
Avg	99.38%	99.59%

Downtime (hr)	This Month	Year to Date
WTG 1	18.44	158.49
WTG 2	31.36	208.40
WTG 3	17.86	158.63
Total	67.66	525.52

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2019 Annual
WTG 1	14.55	14.50
WTG 2	12.36	13.88
WTG 3	12.96	14.29
Estimated	13.57	13.39

Capacity Factor (%)	This Month	2019 Annual
WTG 1	33.03%	40.20%
WTG 2	31.51%	39.16%
WTG 3	33.17%	40.07%
Low Estimate	28.39%	28.70%

H. Report Notes and Comments