



Cooper Farms' Wind VW
Van Wert, OH

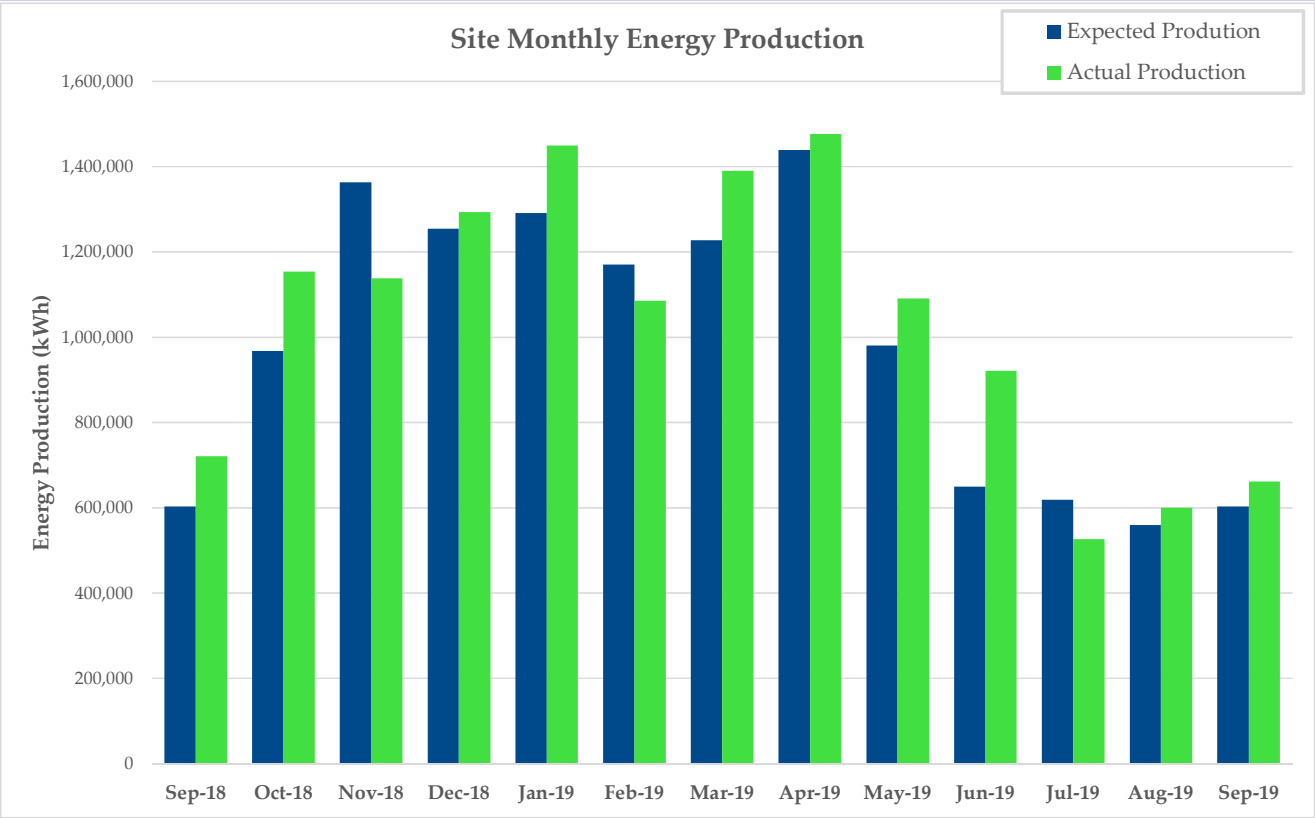


A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG 1	WTG 2	WTG 3
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
Jun-19	649,158	921,230	304,100	301,760	315,370
Jul-19	618,687	526,810	179,780	167,330	179,700
Aug-19	559,508	600,600	200,850	197,710	202,040
Sep-19	603,085	661,430	222,160	210,200	229,070
Production 2019 (ytd) (kWh)	8,537,920	9,201,712	3,091,926	3,005,624	3,104,162
Total Production (kWh)*	12,122,935	12,786,942	4,290,346	4,179,364	4,317,232
Capacity Factor*	32.44%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

September-2019



Monthly Report
September-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
February-2020	Goldwind 7.5 Year Maintenance	~8	WTG 1
February-2020	Goldwind 7.5 Year Maintenance	~8	WTG 2
February-2020	Goldwind 7.5 Year Maintenance	~8	WTG 3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hrs)	Turbine
9/10/2019	Goldwind 7 Year Maintenance	Planned	6.28	WTG 1
9/10/2019	Goldwind 7 Year Maintenance	Planned	5.11	WTG 3
9/11/2019	Goldwind 7 Year Maintenance	Planned	2.54	WTG 2
9/11-13/219	Plant Maintenance	Unplanned	50.13	WTG 1
9/11-13/219	Plant Maintenance	Unplanned	51.15	WTG 2
9/11-13/219	Plant Maintenance	Unplanned	50.13	WTG 3
9/22/2019	Convertor Not Ready Error	Unplanned	4.76	WTG 1
9/24/2019	Blade Repairs	Unplanned	14.45	WTG 1

F. Turbine Availability & Downtime

Availability	This Month	Year To Date
WTG 1	97.33%	98.41%
WTG 2	99.96%	98.64%
WTG 3	100.00%	100.00%
Avg	99.10%	99.02%

Downtime (hr)	This Month	Year To Date
WTG 1	75.63	389.65
WTG 2	53.95	402.48
WTG 3	55.24	286.29
Total	184.82	1078.42

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2019 Annual
WTG 1	12.72	13.59
WTG 2	10.88	12.35
WTG 3	11.43	12.82
Estimated	11.09	13.39

Capacity Factor (%)	This Month	2019 Annual
WTG 1	20.57%	31.46%
WTG 2	19.46%	30.58%
WTG 3	21.21%	31.58%
Low Estimate	18.42%	28.72%

H. Report Notes and Comments