



BALL CORPORATION - ZEPHYR WIND PROJECT

North Findlay Wind Campus, Findlay, OH

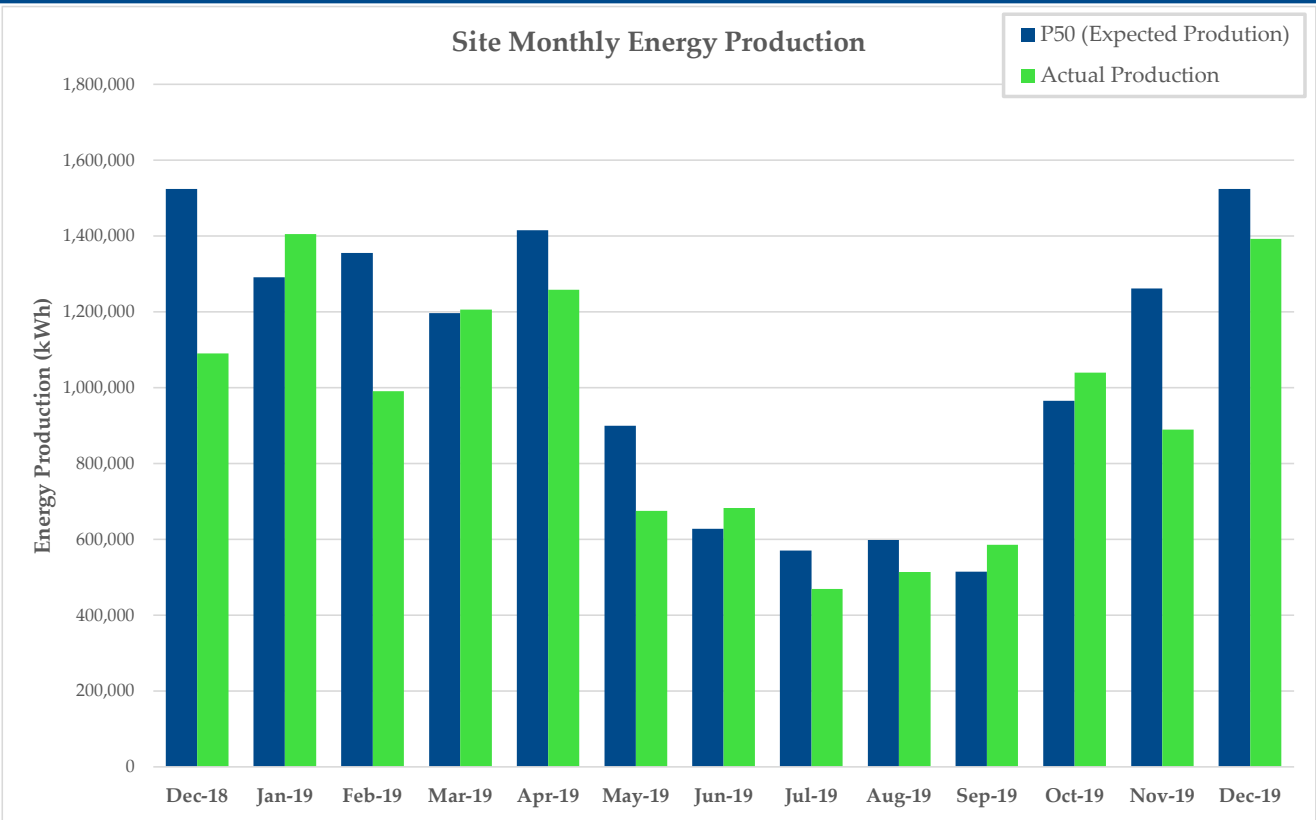


A. Site Energy Production Summary

Energy Production (kWh)					
	Site		By Turbine		
	P50 (Expected Production)	Actual Production	Z1	Z2	Z3
Dec-18	1,524,000	1,090,402	371,241	361,728	357,433
Jan-19	1,291,000	1,404,829	478,894	461,547	464,388
Feb-19	1,355,000	990,378	351,191	338,149	301,038
Mar-19	1,197,000	1,205,738	426,173	396,015	383,550
Apr-19	1,415,000	1,258,163	431,314	415,843	411,006
May-19	900,000	674,985	237,304	222,891	214,790
Jun-19	628,000	682,994	232,437	224,872	225,685
Jul-19	571,000	469,744	167,832	151,963	149,949
Aug-19	598,000	513,686	177,673	167,452	168,561
Sep-19	515,000	585,768	205,203	193,838	186,727
Oct-19	966,000	1,039,656	350,721	348,791	340,144
Nov-19	1,262,000	889,667	312,289	296,145	281,233
Dec-19	1,524,000	1,392,651	483,293	460,120	449,238
Production 2019 (ytd) (kWh)	12,222,000	11,108,259	3,854,324	3,677,626	3,576,309
Total Production (kWh)*	12,222,000	11,108,259	3,854,324	3,677,626	3,576,309
Capacity Factor*	28.18%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

December-2019



Monthly Report December-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
April-2020	Goldwind 4 Year Maintenance	~15	Z1
April-2020	Goldwind 4 Year Maintenance	~15	Z2
April-2020	Goldwind 4 Year Maintenance	~15	Z3

E. Actual Maintenance Events

Date	Event	Planned/Unplanned	Duration (hrs)	Turbine
12/9/2019	Grid Active Power Error	Unplanned	4.45	Z2
12/24/2019	Plant Shutdown	Unplanned	11.86	Z1, Z2, Z3

F. Turbine Availability & Downtime

Availability	This Month	Year To Date
Z1	100.00%	100.00%
Z2	99.37%	99.93%
Z3	100.00%	99.07%
Avg	99.79%	99.67%

Downtime (hr)	This Month	Year To Date
Z1	12.53	371.45
Z2	17.24	378.60
Z3	12.53	458.98
Total	42.30	1209.03

G. Billed Data

Meter Reading (Date/Time)	12/18/2019 12:00 AM
Meter To Date Produced	42,690,058 kWh
Meter To Date Consumed	54,279 kWh
Last Reading Produced	41,535,171 kWh
Last Reading Consumed	52,687 kWh
Billed kWh	1,153,296 kWh
Next Meter Reading	1/20/2020 12:00 AM

H. Report Notes and Comments

*Z3 production total for May and June 2019 is an estimate due to loss of communications.