



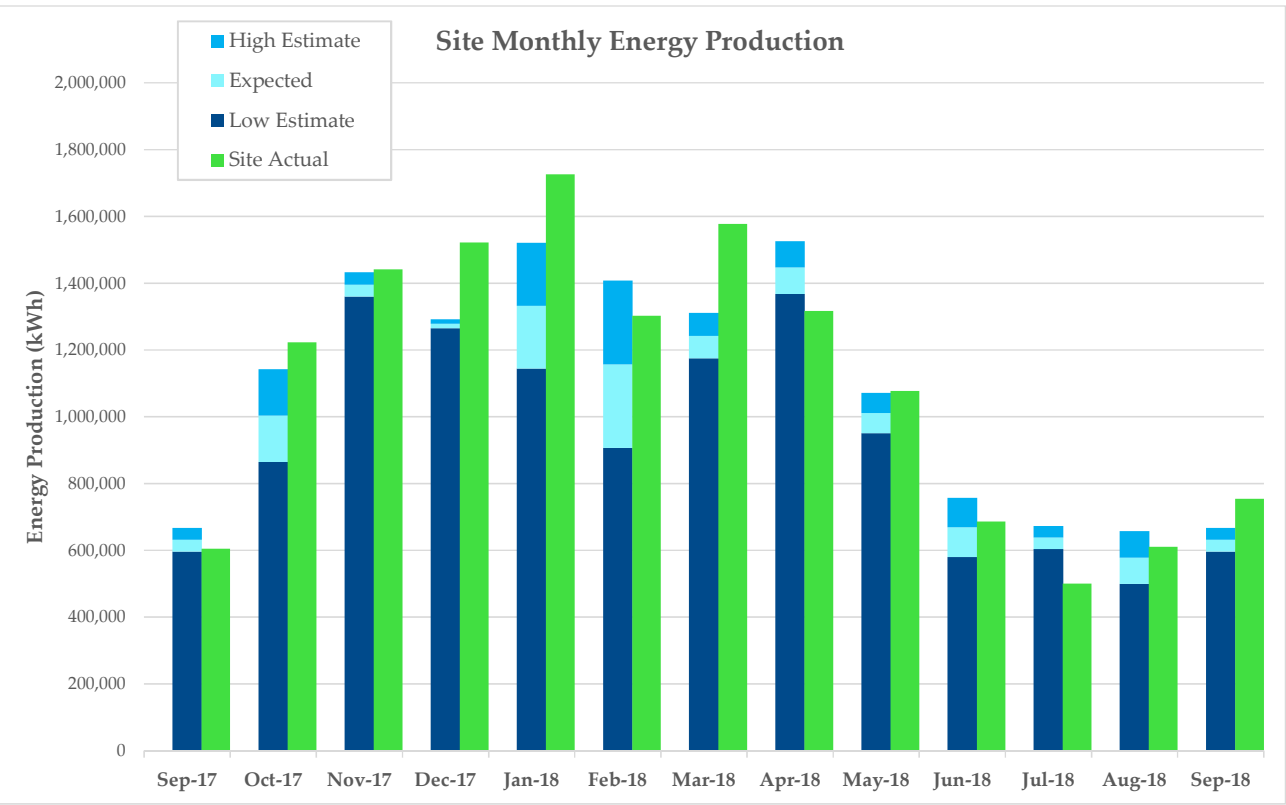
Haviland Plastic Products, Co.
Haviland, OH

A. Site Energy Production Summary

	Energy Production (kWh)				
	Site		By Turbine		
	Expected Production	Actual Production	WTG A	WTG B	WTG C
Sep-17	631,697	605,096	208,710	201,632	194,754
Oct-17	1,003,602	1,223,590	422,370	411,740	389,480
Nov-17	1,395,914	1,441,140	493,690	470,470	476,980
Dec-17	1,278,858	1,521,630	522,010	495,750	503,870
Jan-18	1,332,437	1,726,420	585,680	568,390	572,350
Feb-18	1,157,019	1,303,000	447,860	426,380	428,760
Mar-18	1,242,761	1,576,970	530,020	505,480	541,470
Apr-18	1,447,248	1,316,810	462,450	405,270	449,090
May-18	1,010,966	1,077,570	344,730	377,970	354,870
Jun-18	668,411	686,130	223,300	224,540	238,290
Jul-18	638,097	499,960	165,840	165,390	168,730
Aug-18	577,992	610,690	217,500	193,470	199,720
Sep-18	631,697	754,220	249,590	254,010	250,620
Production 2018 (ytd) (kWh)	8,706,626	9,551,770	3,226,970	3,120,900	3,203,900
Total Production (kWh)*	12,384,999	13,738,130	4,665,040	4,498,860	4,574,230
Capacity Factor*	34.85%		*Value calculated over the last 12 months		

B. Site Energy Production Graph

September-2018



Monthly Report
September-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
November-2018	Goldwind 6.5 Year Maintenance	~8	WTG A
November-2018	Goldwind 6.5 Year Maintenance	~8	WTG B
November-2018	Goldwind 6.5 Year Maintenance	~8	WTG C

E. Actual Maintenance Events - September 2018

Date	Event	Planned/Unplanned	Duration (hr)	Turbine
9/28/2018	Tower Base Converter Error	Unplanned	6.01	WTG A

F. Turbine Availability & Downtime

Availability (%)	This Month	Year to Date
WTG A	98.82%	98.21%
WTG B	99.98%	98.70%
WTG C	99.31%	99.49%
Avg	99.37%	98.80%

Downtime (hr)	This Month	Year to Date
WTG A	8.50	218.75
WTG B	0.14	185.43
WTG C	4.97	165.80
Total	13.61	569.98

G. Wind Speed & Capacity Factor

Wind Speed (mph)	This Month	2018 Annual
WTG A	10.57	11.90
WTG B	10.66	11.90
WTG C	11.27	12.57
Estimated	11.09	13.39

Capacity Factor (%)	This Month	2018 Annual
WTG A	23.11%	32.83%
WTG B	23.52%	31.76%
WTG C	23.21%	32.60%
Low Estimate	18.42%	32.40%

H. Report Notes and Comments