

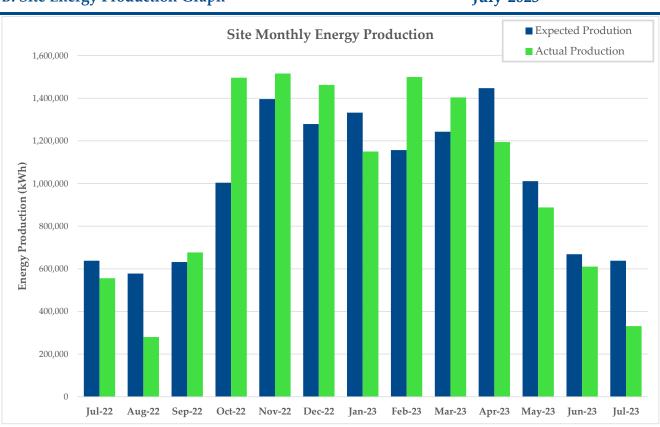
# Haviland Plastic Products, Co. Haviland, OH

# A. Site Energy Production Summary

		Energy Production (kWh)					
		Site		By Turbine			
		Expected Prodution	Actual Production	WTG A	WTG B	WTG C	
	Jul-22	638,097	555,748	185,249	185,249	185,249	*
	Aug-22	577,992	280,279	55,330	81,647	143,302	**
	Sep-22	631,697	677,002	239,176	217,343	220,483	
	Oct-22	1,003,602	1,496,092	512,714	497,365	486,013	
	Nov-22	1,395,914	1,515,960	520,077	499,774	496,109	
	Dec-22	1,278,858	1,462,265	467,266	514,480	480,519	
	Jan-23	1,332,437	1,150,057	407,479	370,851	371,727	
	Feb-23	1,157,019	1,499,564	513,873	511,795	473,896	
	Mar-23	1,242,761	1,403,979	477,517	451,995	474,467	****
	Apr-23	1,447,248	1,194,254	398,085	398,085	398,085	*
	May-23	1,010,966	887,683	300,440	287,583	299,660	****
	Jun-23	668,411	610,504	240,557	117,217	252,730	
	Jul-23	638,097	331,312	124,906	135,529	70,877	
Production 2023 (ytd) (kWh)		7,496,938	7,077,353	2,462,857	2,273,055	2,341,442	
Total Production (kWh) (LTM)		12,385,000	12,508,951	4,257,420	4,083,664	4,167,868	
Capacity Factor (LTM)		31.7	73%		_		<del></del>

#### **B. Site Energy Production Graph**

# July-2023



# Monthly Report July-2023



FINANCING WIND FOR INDUSTRY

# C. Safety Summary

	This Month	Project Cumulative	
Recordable Incident(s)	0	0	
Near Miss(es)	0	0	

#### D. Planned Maintenance Events

		Duration	
Date	Event	(hr)	Turbine
December-2023	11 Year Maintenance	~15	WTG A
December-2023	11 Year Maintenance	~15	WTG B
December-2023	11 Year Maintenance	~15	WTG C

#### E. Actual Maintenance Events

Availability

WTG A

WTG B

WTG C

Avg

		Planned/	Duration	
Date	Event	Unplanned	(hrs)	Turbine
7/1/2023	Blade Repair	Unplanned	13.48	WTG A
7/3/2023	Blade Repair	Unplanned	11.50	WTG A
7/4/2023-7/17/2023	Blade Repair	Unplanned	314.50	WTG C
7/21/2023	Blade Repair	Unplanned	13.91	WTG C
7/27/2023-7/31/2023	Blade Repair	Unplanned	114.20	WTG A

# F. Turbine Availability & Downtime\*\*\*

This Month

100.00%

100.00%

100.00%

100.00%

		1 2	
Year To Date	Wind Speed (mph)	This Month	2022 Annual
100.00%	WTG A	8.07	11.78
99.48%	WTG B	7.82	11.41
98.98%	WTG C	8.57	12.41

**Estimated** 

G. Wind Speed & Capacity Factor

11.22

13.39

Downtime (hr)	This Month	Year To Date	Capacity Factor (%)	This Month	2022 Annual
WTG A	140.58	252.26	WTG A	11.19%	31.51%
WTG B	4.91	456.94	WTG B	12.14%	28.62%
WTG C	331.87	411.98	WTG C	6.35%	29.82%
Total	477.36	1121.18	Low Estimate	18.03%	28.72%

# H. Report Notes and Comments

99.49%

<sup>\*</sup>Production read from the meter due to SCADA communication issues.

<sup>\*\*</sup>August 2022 production is lower than actual due to SCADA communication issues.

<sup>\*\*\*</sup>Due to expiration of the OEM warranty, turbine availability and downtime reporting will no longer include warrantied availability. Downtime will be categorized appropriately.

<sup>\*\*\*\*</sup>March 2023 WTG Energy Production contains estimates due to a SCADA error. 3/30/2023 and 3/31/2023 are missing data for all 3 Turbines.

<sup>\*\*\*\*\*</sup>May 2023 - 5/7/2023 and 5/8/2023 Production is from the meter due to a SCADA server error.