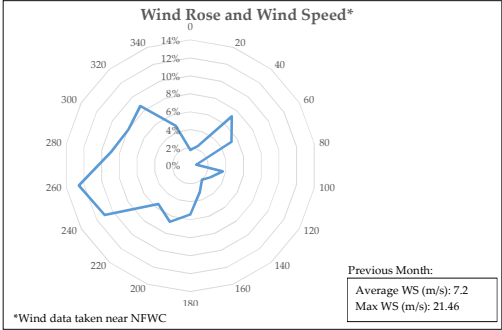
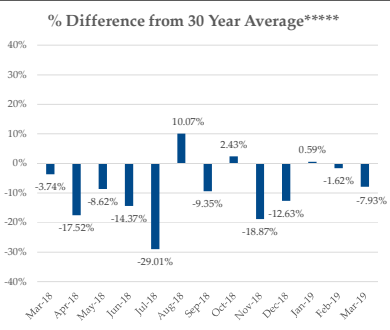
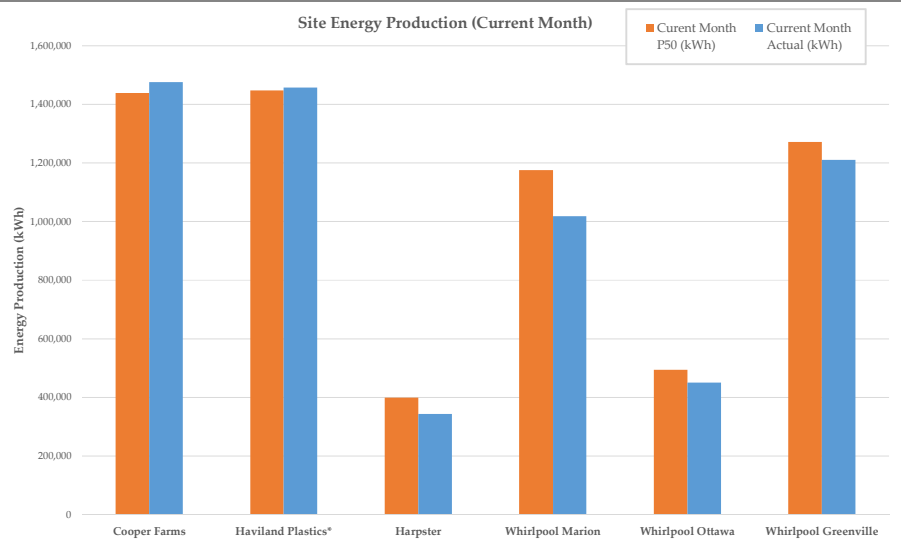


Wind for Industry® Fleet Report - Regional  
April-2019



Fleet Energy Production Summary & Month Characterization

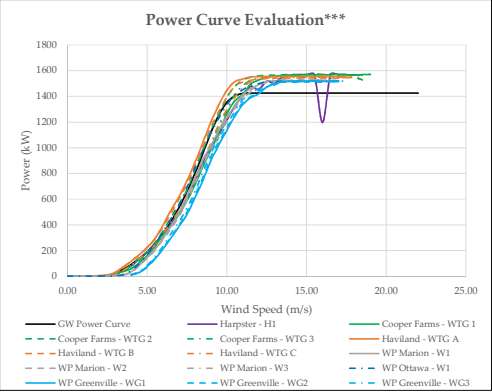
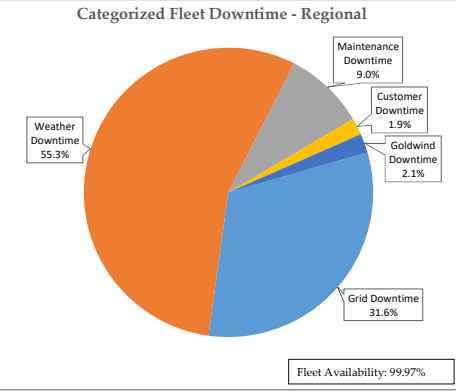
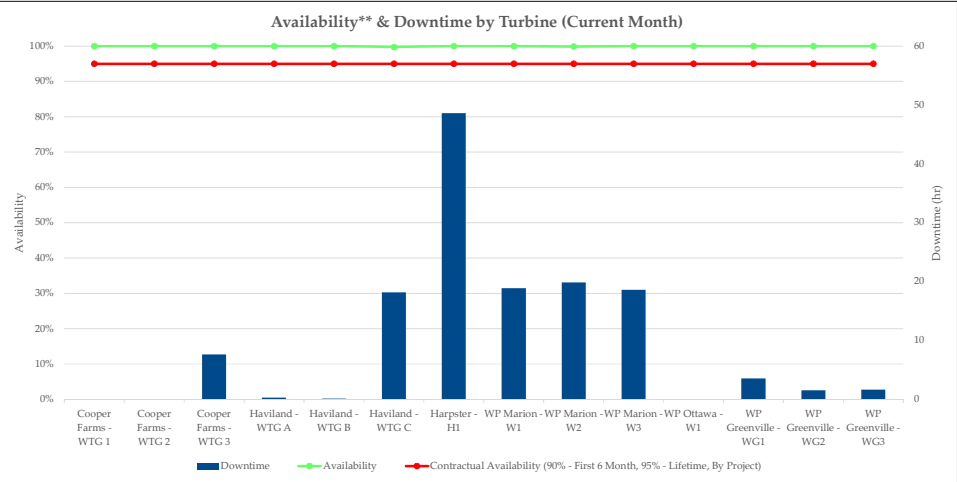
	Size (MW)	Energy Production				
		Current Month P50 (kWh)	Current Month Actual (kWh)	Rolling 12 Month P50 (kWh)	Rolling 12 Month Actual (kWh)	Rolling 12 Month CF
Cooper Farms	4.5	1,438,497	1,476,210	12,122,935	12,489,042	31.68%
Haviland Plastics*	4.5	1,447,248	1,456,800	12,384,999	12,705,570	32.23%
Harpster	1.5	399,000	343,819	3,890,000	3,251,562	24.75%
Whirlpool Marion	4.5	1,176,000	1,017,622	11,166,000	9,181,535	23.29%
Whirlpool Ottawa	1.5	494,000	450,366	4,266,000	3,735,470	28.43%
Whirlpool Greenville	4.5	1,272,000	1,210,371	12,036,000	-	-
Fleet - Regional	21.0	6,226,745	5,955,188	55,865,934	41,363,179	
Fleet - Regional Rolling 12 month Capacity Factor:						28.08%



\* Rolling month characterization is always one month behind because the data used in this analysis is always one month behind. Changes to rolling month characterization reflect additional data availability.

Fleet Performance & Metrics

Safety Summary			
		This Month	Fleet Cumulative
Recordable Incident(s):		0	0
Near Miss(es):		0	0
Planned Maintenance			
Date	Project - Event	Duration (hrs)	Wind Turbine
May-2019	WP Greenville - Goldwind 6 Month Maintenance	~8	WG1, WG2, WG3
May-2019	WP Marion - Goldwind 1 Year Maintenance	~15	W1, W2, W3
September-2019	Cooper - Goldwind 7 Year Maintenance	~15	WTG1, WTG2, WTG3
September-2019	Haviland Plastics - Goldwind 7 Year Maintenance	~15	WTGA, WTGB, WTGC
September-2019	WP Ottawa - Goldwind 1.5 Year Maintenance	~8	W1
October-2019	Harpster - Goldwind 3.5 Year Maintenance	~8	H1



\*Haviland production total includes estimated production for WTG C for April 1-7 due to meter malfunction.  
\*\* Availability in this report refers to Goldwind's contractual availability (as defined per the applicable contract per project).  
\*\*\* Power Curve validation completed using LiDAR equivalent wind speeds (conversion introduces about 3% error) and 95 % of GW Power Curve (warranty amount).