

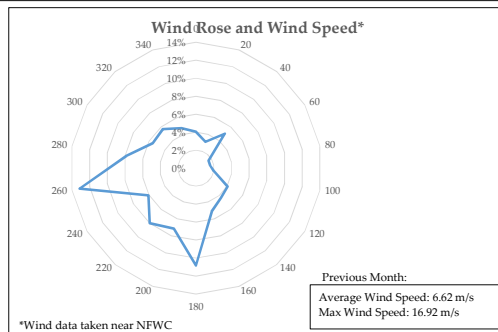
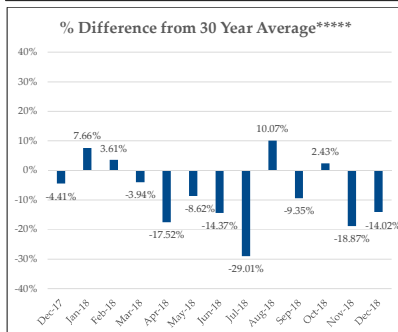
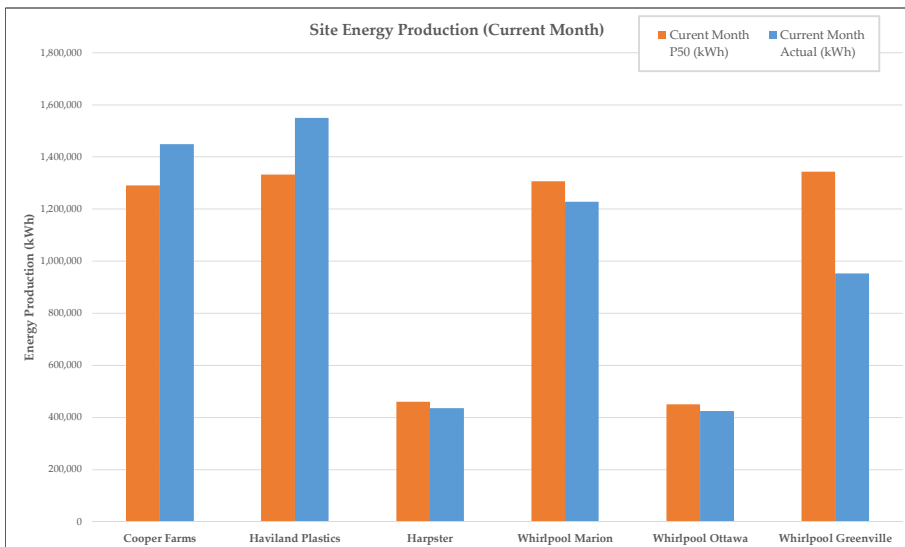
Wind for Industry® Fleet Report - Regional

January-2019



Fleet Energy Production Summary & Month Characterization

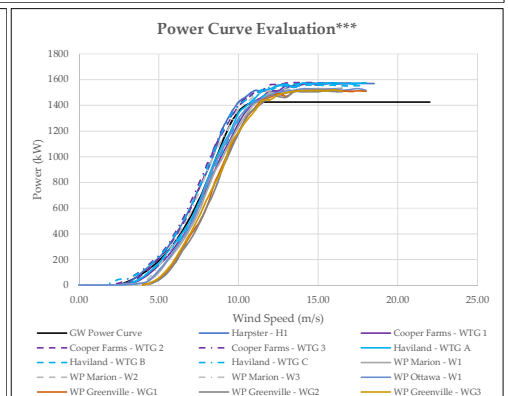
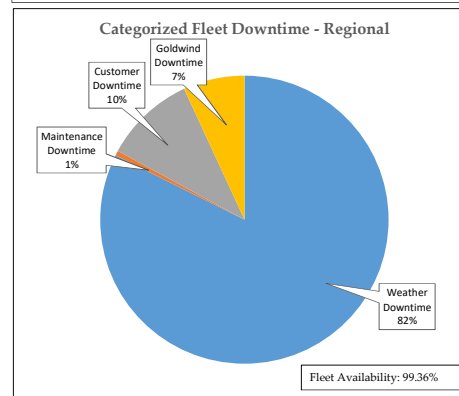
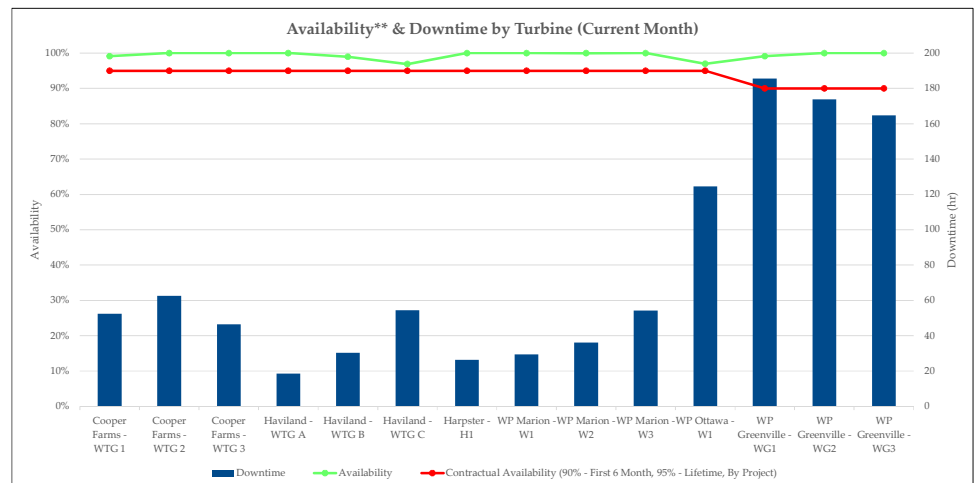
	Size (MW)	Energy Production				
		Current Month P50 (kWh)	Current Month Actual (kWh)	Rolling 12 Month P50 (kWh)	Rolling 12 Month Actual (kWh)	Rolling 12 Month CF
Cooper Farms	4.5	1,290,968	1,449,160	12,122,935	12,084,004	30.65%
Haviland Plastics	4.5	1,332,437	1,549,490	12,384,999	12,903,880	32.73%
Harpster	1.5	460,000	435,895	3,890,000	3,243,644	24.69%
Whirlpool Marion	4.5	1,306,000	1,228,632	11,166,000	9,204,646	23.35%
Whirlpool Ottawa	1.5	450,000	424,745	4,266,000	3,648,918	27.77%
Whirlpool Greenville	4.5	1,343,000	952,287	12,036,000	-	-
Fleet - Regional	21.0	6,182,404	6,040,209	55,865,934	41,085,092	
Fleet - Regional Rolling 12 month Capacity Factor:						27.84%



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
February-2019	Cooper - Goldwind 6.5 Year Maintenance	~8	WTG1, WTG2, WTG3
February-2019	Haviland Plastics - Goldwind 6.5 Year Maintenance	~8	WTGA, WTGB, WTGC
February-2019	WP Ottawa - Goldwind 1 Year Maintenance	~15	W1
April-2019	WP Greenville - Goldwind 6 Month Maintenance	~8	WG1, WG2, WG3
May-2019	WP Marion - Goldwind 1 Year Maintenance	~15	W1, W2, W3
May-2019	Harpster - Goldwind 3 Year Maintenance	~15	H1



* 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.

** 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