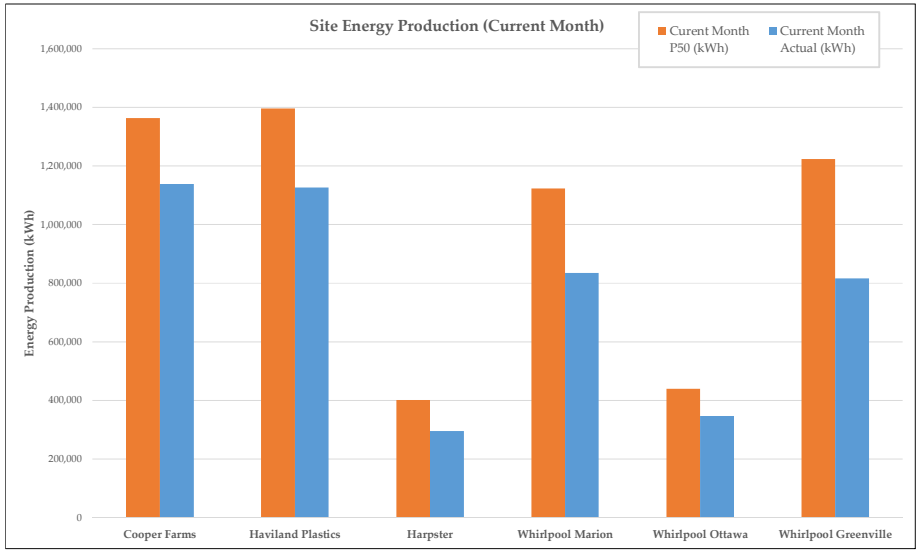
Wind for Industry® Fleet Report - Regional

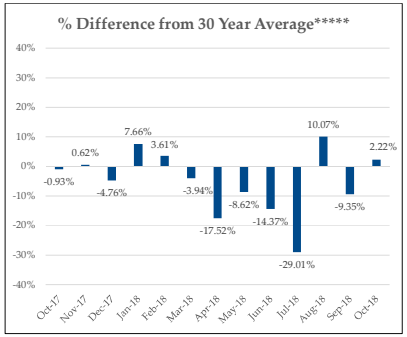
November-2018

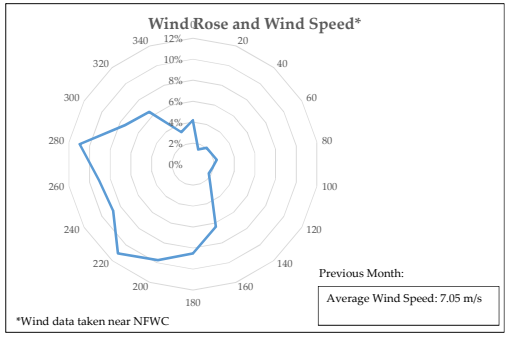
ONE ENERGY
WIND FOR INDUSTRY®

Fleet Energy Production Summary & Month Characterization

	Energy Production					
	Size (MW)	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	1,362,692	1,138,070	12,122,935	11,976,224	30.38%
Haviland Plastics	4.5	1,395,914	1,126,610	12,384,999	13,399,070	33.99%
Harpster	1.5	402,000	295,590	3,890,000	3,291,039	25.05%
Whirlpool Marion	4.5	1,123,000	835,265	11,166,000	9,052,556	22.96%
Whirlpool Ottawa	1.5	440,000	347,233	4,266,000	-	-
Whirlpool Greenville	4.5	1,224,000	816,424	12,036,000	-	-
Fleet - Regional	21.0	5,947,606	4,559,192	55,865,934	37,718,889	
Fleet - Regional Rolling 12 month Capacity Factor:						28.10%







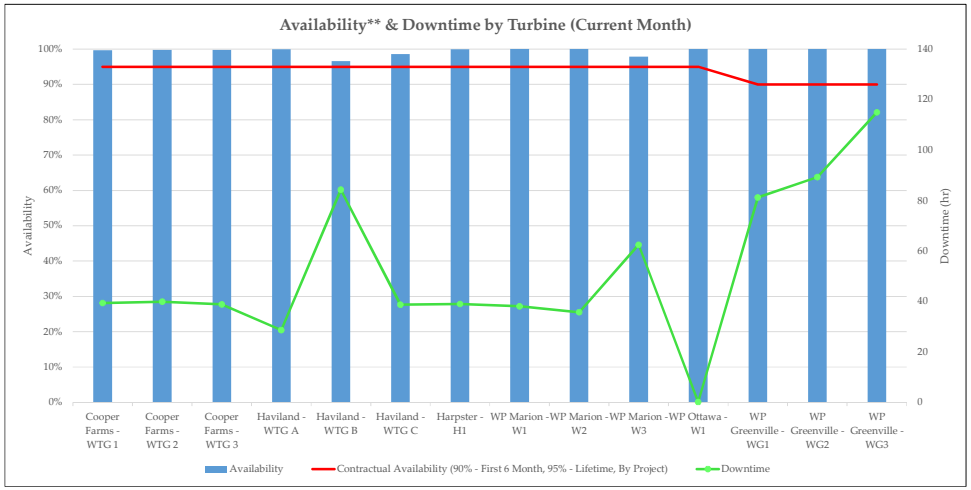
* Rolling month characterization is always one month behind because the data used in this analysis is always one month behind. Changes to rolling month characterization reflect updated analysis methodology and additional data availability.

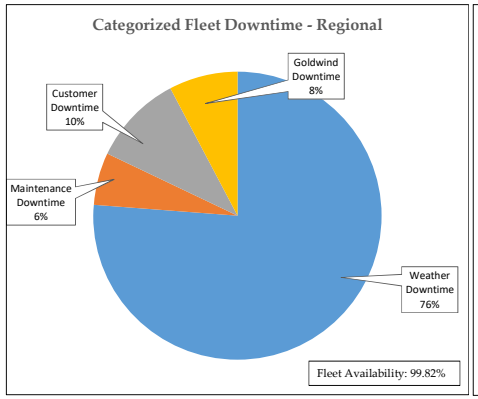
Fleet Performance & Metrics

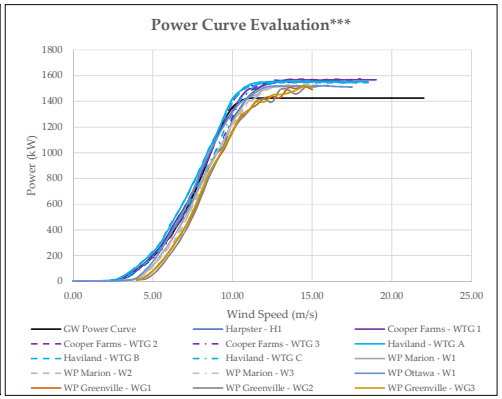
Safety Summary		
	This Month	Fleet Cumulative
Recordable Incident(s):	0	0
Near Miss(es):	0	0

Planned Maintenance

Date	Project - Event	Duration (hrs)	Wind Turbine
December-2018	WP Marion - Goldwind 1 Year Maintenance	~15	W1,W2,W3
December-2018	WP Greenville - Goldwind 500 Hour Maintenance	~8	WG1,WG2,WG3
January-2019	Cooper - Goldwind 6.5 Year Maintenance	~8	WTG1, WTG2, WTG3
January-2019	Haviland Plastics - Goldwind 6.5 Year Maintenance	~8	WTGA, WTGB, WTGC
January-2019	WP Ottawa - Goldwind 1 Year Maintenance	~15	W1
April-2019	Harpster - Goldwind 3 Year Maintenance	~15	H1







** 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