Monthly Performance Report

February 2016

for

Tippecanoe Valley School Corporation

Prepared for

Brett Boggs, Superintendent of Tippecanoe Valley School Corporation

Dr. Dan Kramer, Assistant Superintendent of Tippecanoe Valley School Corporation

Todd Glenn, Director of Maintenance of Tippecanoe Valley School Corporation

By:
Performance Services
4670 Haven Point Boulevard, Suite 200
Indianapolis, IN 46280
Tel: (317) 713-1750 Fax: (317) 713-1751

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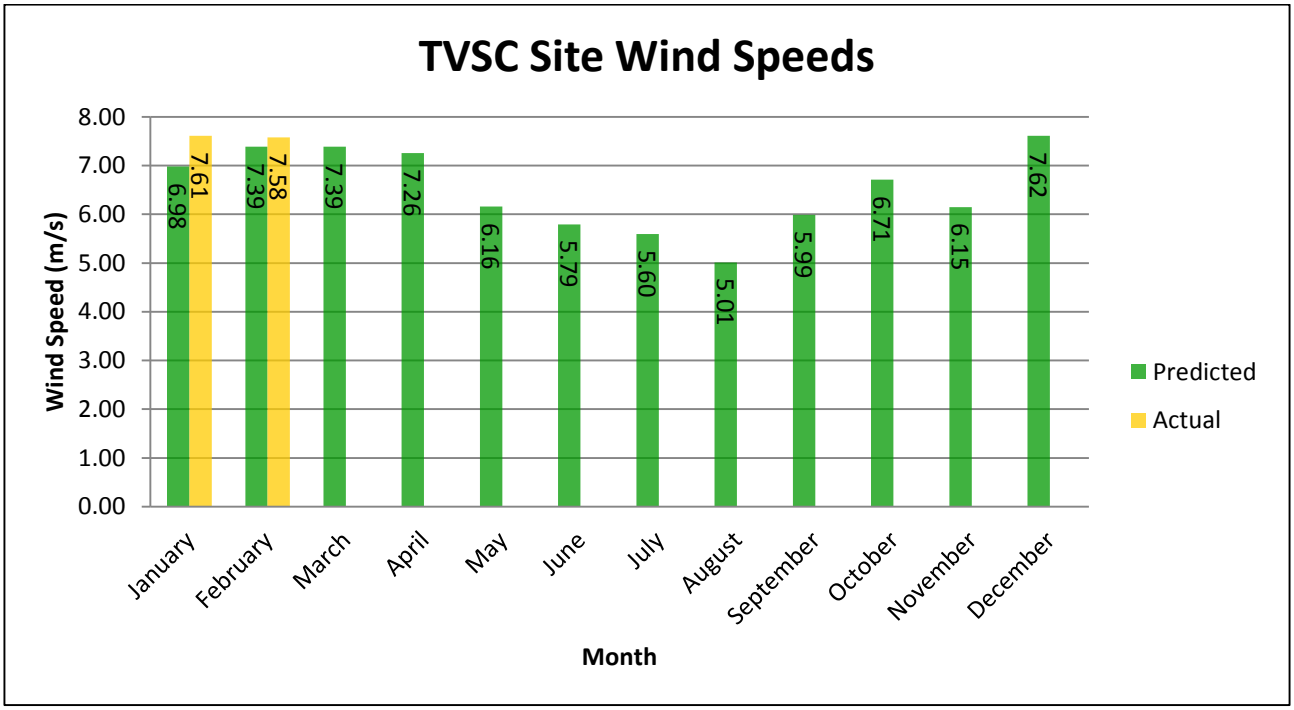
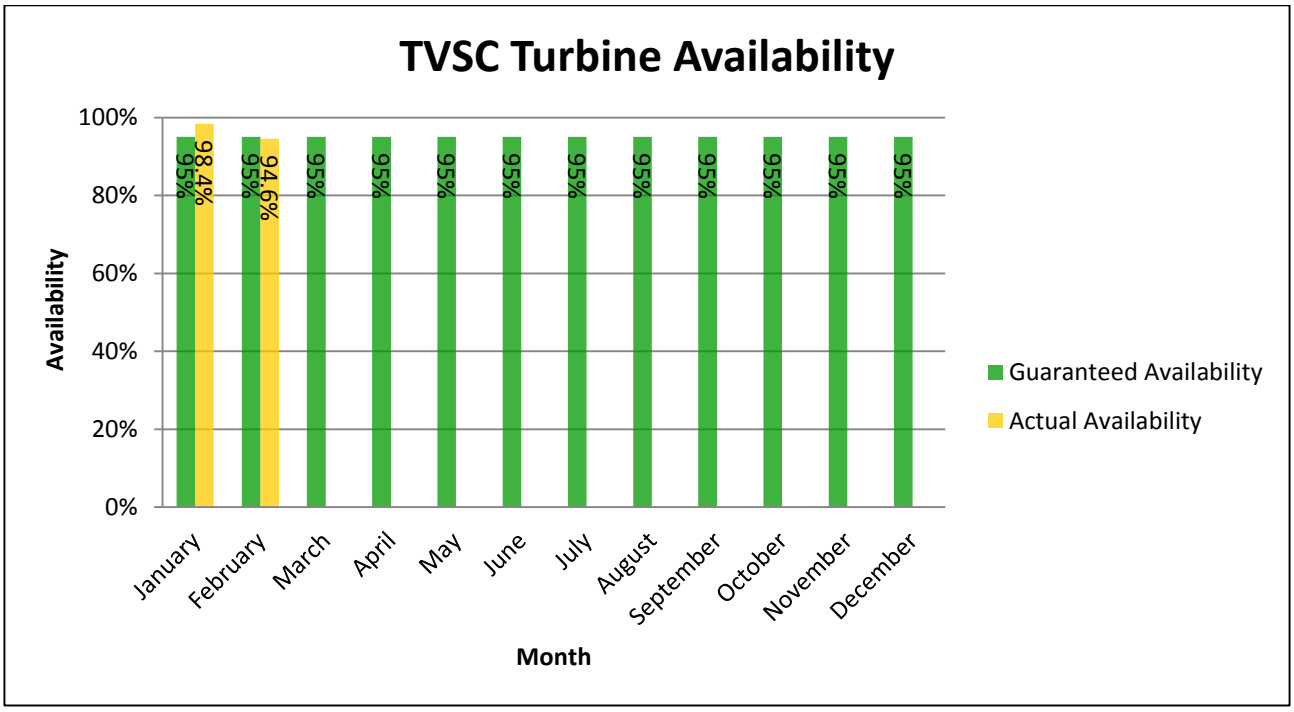
TOTAL POWER PRODUCTION REPORTED BY SCADA FOR FEBRUARY = 190,964.0 kWh

AVERAGE AVAILABILITY REPORTED BY SCADA FOR FEBRUARY = 94.55%

Date	Availability	Wind Speed	Production	Comments
	(%)	(m/s)	(kWh)	
February 1, 2016	100	3.27	933.5	
February 2, 2016	100	11.25	14408.5	
February 3, 2016	93.06	9.71	10262	Icing
February 4, 2016	24.96	6.17	382.5	Icing
February 5, 2016	100	5.25	1556	
February 6, 2016	100	6.03	2528.5	
February 7, 2016	100	8.96	8561	
February 8, 2016	100	6.17	2286	
February 9, 2016	47.06	8.27	3062	Icing
February 10, 2016	100	8.41	6954	
February 11, 2016	100	4.77	1247	
February 12, 2016	100	8.3	8021	
February 13, 2016	100	6.32	4044.5	
February 14, 2016	100	7.65	6846.5	
February 15, 2016	93.3	4.09	549	Icing
February 16, 2016	100	3.11	184.5	
February 17, 2016	100	5.43	1365.5	
February 18, 2016	100	8.71	9017.5	
February 19, 2016	94.89	14.77	19613	
February 20, 2016	100	9.63	10521.5	
February 21, 2016	100	6.02	2549.5	
February 22, 2016	88.58	4.82	1173	Replace vane
February 23, 2016	100	7.44	4725	
February 24, 2016	100	9.65	18094.5	
February 25, 2016	100	9.19	13322	
February 26, 2016	100	4.94	954	
February 27, 2016	100	9.28	9617.5	
February 28, 2016	100	13.47	19390	
February 29, 2016	100	8.81	8794.5	

Availability [%] – Percentage of daily uptime
Wind Speed [m/s] – Daily average wind speed in meters per second
Production [kWh] – Daily cumulative energy export in kilowatt hours


TVSC Site Wind Speeds
Wind Speed (m/s)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
6.98
7.61
7.39
7.58
7.39
7.26
6.16
5.79
5.60
5.01
5.99
6.71
6.15
7.62
January
February
March
April
May
June
July
August
September
October
November
December
Month
Predicted
Actual


TVSC Turbine Availability
Availability
100%
80%
60%
40%
20%
0%
95%
98.4%
95%
94.6%
95%
95%
95%
95%
95%
95%
95%
95%
95%
95%
January
February
March
April
May
June
July
August
September
October
November
December
Month
Guaranteed Availability
Actual Availability

DOWNTIME EXPLANATION *(for availability less than 75%)*

February 3 & 4, 2016: Turbine shut down due to ice accumulation. Returned to production when weather conditions allowed.
February 9, 2016: Turbine shut down due to ice accumulation. Returned to production when weather conditions allowed.
February 15, 2016: Turbine shut down due to ice accumulation. Returned to production when weather conditions allowed.
February 22, 2016: Replace wind vane, heater was defective.

SCHEDULED MAINTENANCES

There were no scheduled maintenances for February 2016.