# Aptuitiv Wind Farm App Overview

# **Overview of the Aptuitiv Wind Farm App**

Essentially the Wind Farm app interfaces with ISO-NE's system to send them forecasts of your turbine MW capacity and returns back short-term, medium-term and long-term forecasts from them. There are currently 7 wind farm projects in New England using our app.

The app is a hosted service on our servers. We maintain the hosting infrastructure and code to free you up from any technical requirements. It is web-based so all you need is an internet connection and a browser to access the app. You can have multiple users access the system and setup access restrictions if you want to. For example, you could setup a user that can only view data and can't make any outage or turbine capacity adjustments.

## **Forecasts and Outages**

You can view your turbine's forecast information, schedule outages and adjust capacity.

# Wind Farm / 0 - 48 Hr Wind Plant Future Availability Submission Preview S Oct 04, 2016 16:00 1 - Oct 06, 2016 16:00 1



1 This data will be sent to ISO-NE at the top of the hour, every hour.

Current Time: 10/04/2016 15:54

### Oct 04, 2016

Date	MW Available
10/04/2016 16:00 - 17:00	20.000 MW
10/04/2016 17:00 - 18:00	20.000 MW
10/04/2016 18:00 - 19:00	20.000 MW
10/04/2016 19:00 - 20:00	20.000 MW
10/04/2016 20:00 - 21:00	20.000 MW
10/04/2016 21:00 - 22:00	20.000 MW
10/04/2016 22:00 - 23:00	20.000 MW
10/04/2016 23:00 - 24:00	20.000 MW

# Oct 05, 2016

Date	MW Available
10/05/2016 00:00 - 01:00	20.000 MW
10/05/2016 01:00 - 02:00	20.000 MW
10/05/2016 02:00 - 03:00	20.000 MW
10/05/2016 03:00 - 04:00	20.000 MW
10/05/2016 04:00 - 05:00	20.000 MW
10/05/2016 05:00 - 06:00	20.000 MW
10/05/2016 06:00 - 07:00	20.000 MW
10/05/2016 07:00 - 08:00	20.000 MW
10/05/2016 08:00 - 09:00	18 MW
10/05/2016 09:00 - 10:00	18 MW

# Wind Farm / Weekly Summary Spruce Mt Wind Patriot Renewables

#### 10/02/2016 - 10/08/2016

#### Previous Week This Week Next Week

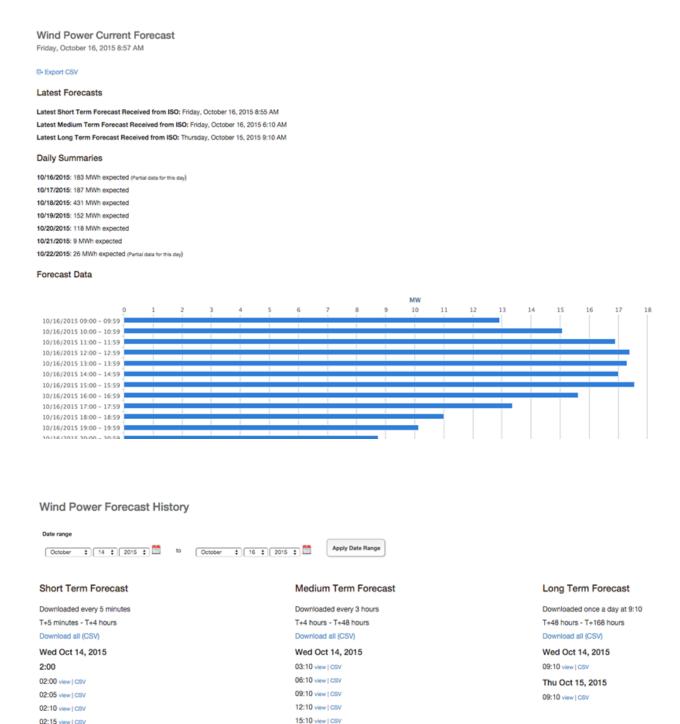
Turbine	10/02/2016	10/03/2016	10/04/2016	10/05/2016
Г1				
2				
3				
5				
6				
7				
8				
9				
10				

#### **Turbine Outages**

₩ D	in Delete						
	Actions		End Date \$	Type \$	Turbine(s)	Comment	
		10/08/2015 at 08:00	10/08/2015 at 14:00	Scheduled Maintenance	T9 (2.000 MW)	42mm	
		10/07/2015 at 11:00	10/07/2015 at 16:00	Scheduled Maintenance	T9 (2.000 MW)	42mm	
		10/07/2015 at 09:00	10/07/2015 at 11:00	Scheduled Maintenance	T8 (2.000 MW)	42mm	
		10/06/2015 at 09:00	10/06/2015 at 14:00	Scheduled Maintenance	T8 (2.000 MW)	42mm	
		10/05/2015 at 08:00	10/05/2015 at 14:00	Scheduled Maintenance	T8 (2.000 MW)	42mm	
		10/02/2015 at 09:00	10/02/2015 at 12:00	Unscheduled Maintenance	T9 (2.000 MW)	troubleshoot pitch issues	
		10/01/2015 at 09:00	10/01/2015 at 12:00	Unscheduled Maintenance	T9 (2.000 MW)	Troubleshoot	
	1	09/29/2015 at 13:00	09/29/2015 at 15:00	Unscheduled Maintenance	T11 (2.000 MW)	Troubleshooting.	
		09/29/2015 at 09:00	09/29/2015 at 13:00	Scheduled Maintenance	T7 (2.000 MW)	Maintenance	
		09/28/2015 at 09:00	09/28/2015 at 15:00	Scheduled Maintenance	T7 (2.000 MW)	42mm	
		09/28/2015 at 07:00	09/28/2015 at 17:00	Scheduled Maintenance	T10 (2.000 MW)	hub spinner repair	
		09/25/2015 at 09:00	09/25/2015 at 15:00	Scheduled Maintenance	T2 (2.000 MW)	blade repair - trailing edge	
		09/24/2015 at 09:00	09/24/2015 at 12:00	Scheduled Maintenance	T6 (2.000 MW)	42mm	
	1	09/24/2015 at 09:00	09/24/2015 at 18:00	Scheduled Maintenance	T2 (2.000 MW)	Blade repair	
		09/23/2015 at 11:00	09/23/2015 at 13:00	Scheduled Maintenance	T10 (2.000 MW)	Inspect hub spinner (Upwind)	
		09/23/2015 at 09:00	09/23/2015 at 14:00	Scheduled Maintenance	T6 (2.000 MW)	42mm	
	1	09/21/2015 at 13:00	09/21/2015 at 16:00	Scheduled Maintenance	T6 (2.000 MW)	42mm	

#### **Forecast Data from ISO-NE**

You can view all forecast information from ISO-NE in the app or download as a report. You can also export forecast information as CSV files.



18:10 view | CSV

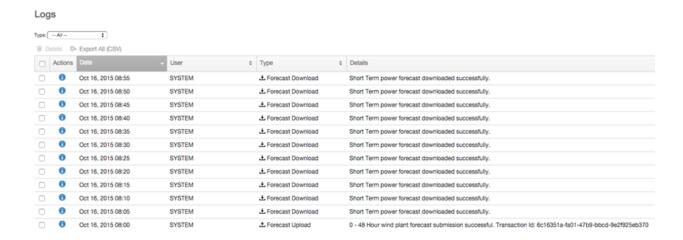
21:10 view | CSV

02:20 view | CSV

02:25 view | CSV

## Logging

Everything in the app is logged thoroughly to help with accountability and troubleshooting if there is an issue with the ISO-NE system.



## **Five Minute Locational Marginal Prices Feed Log**

There is also support for a separate Five Minute Locational Marginal Prices Feed Log where you can setup email notifications if the LMP Total value dips down below a customizable trigger value.

