

Real-Time Weather Observations for Wind Operations and Management



The explosive growth of Wind Energy provides unlimited opportunity to capture utility from renewable resources. Live, local weather intelligence is an imperative component for making decisions that optimize operational efficiencies and forecast accuracy yielding improved revenue and government compliance.

The integration of local surface observation information provides wind operations:

- Forecast accuracy
- Enhanced operations management
- Regulatory compliance
- Improved ramp event management
- Reduced penalties and losses



Operations • Forecasts • Modeling • Asset Protection

WeatherBug Network: Largest proprietary and multi-source real-time weather network providing hyper-local and national information.

Weather Stations: Provide wind tracking upstream and throughout the operational area. The professional grade stations collect data on 27 weather variables including wind speed and direction, temperature, humidity, rain and ice and reliably disseminate the information in real-time to WeatherBug products.

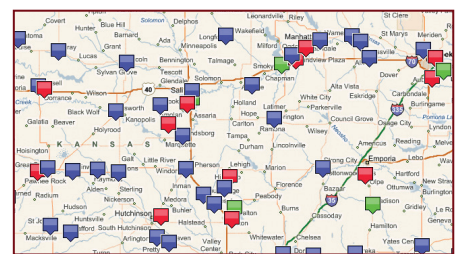
Microscale Wind Power Forecasting: Utilizing real-time, local weather data from the WeatherBug network to train and initialize the latest meso- and micro-scale models, WeatherBug is able to achieve unparalleled forecast accuracy and precision.

WeatherBug Total Lightning Network™: In-cloud and cloud-to-ground lightning detection providing advanced severe storm warning capabilities for asset protection and employee safety.

GIS & API Weather Data Feeds: Integrated observational and historical weather feeds are employed for short-term and day-ahead forecasting. Information is used for wind farm siting and turbine placement analysis.

StreamerRT: Online weather visualization and modeling tool enabling custom weather layers on one map and preset views for multi-location monitoring.

Meteorological Consulting Services: Professional meteorologists available for model analysis, forecast verifications, IM based alerts and customized briefings.



WeatherBug Stations NWS Stations

The dense network of WeatherBug stations greatly enhance the visibility of current conditions throughout Kansas.

