

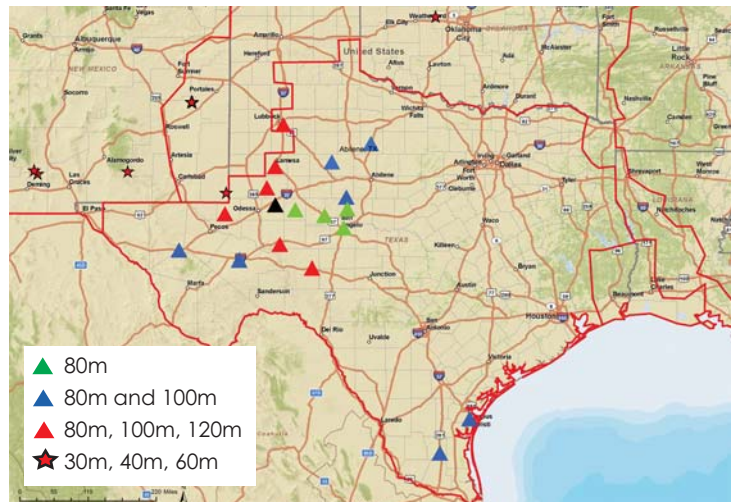


## THE ONSEMBLE NETWORK

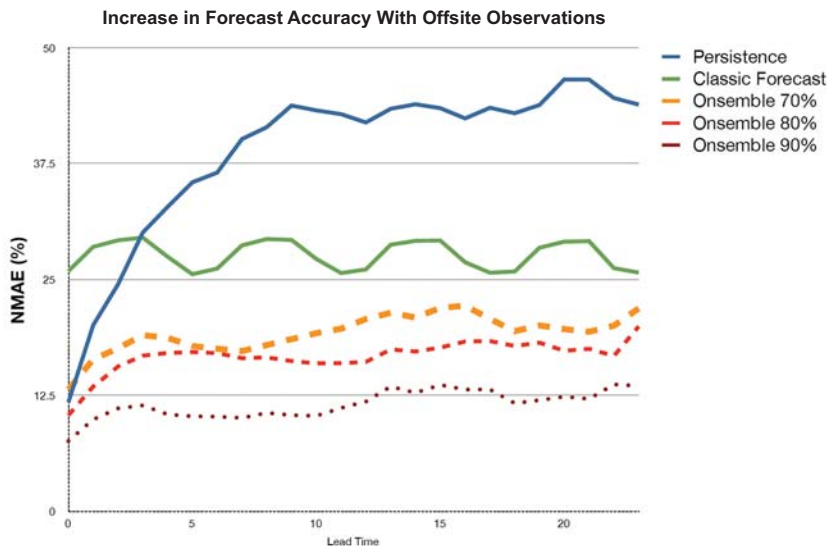
- First of its kind dataset** ▶ Point observations of wind speed, direction, temperature
- No need to extrapolate** ▶ Multiple levels in the rotor plane
- Ideal for machine learning** ▶ Located in and around wind farms
- Accurate, reliable forecast inputs** ▶ Research-grade Instrumentation + Quality Control
- Maintenance and hassle free** ▶ Real-time Data by subscription
- Access however you choose** ▶ FTP / SOAP / WCF connections

## REAL-TIME DATA IN ERCOT

- Observation Points around the ERCOT region
- 60m, 80m, and 120m levels
- 1-yr archive available in select locations
- 1-minute averages updated every 10 minutes
- Ideally located for West Texas wind farms
- Solar data coming Fall 2010



## BETTER DATA MEANS BETTER FORECASTS



- Real-time data is the simplest and easiest way to improve forecast accuracy.
- This suite of Texas observations has delivered reductions of MAE as high as 20% for lead times as far out as 24 hours.
- Onsemble carries out internal studies to ensure the relevance of each observation to improving a forecast.

## ABOUT ONSEMBLE

Incubated and funded by Torch Energy Advisors, Inc., Onsemble is paving the way for more efficient and accurate real-time wind energy forecasts for energy markets.

Onsemble combines scientific development with critical infrastructure to bring much-needed innovation to wind energy forecasting. By using localized data points, hourly data reads, and sophisticated science, Onsemble is helping to create the most accurate and efficient wind energy forecasting tools in the industry.

Onsemble's proprietary sensor network and algorithmic models are the essence of more accurate, more reliable raw data and 24 hour wind energy forecasts. By using hub-height sensors Onsemble is able to get wind speeds at the exact points of energy generation, as opposed to the current methods of generating data reads at ground levels.

## KEY PARTNERS



## BETTER DATA, BETTER FORECASTS

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