



Project Overview

Lexington Chenoa Wind Farm LLC

Katie Chapman, Project Manager

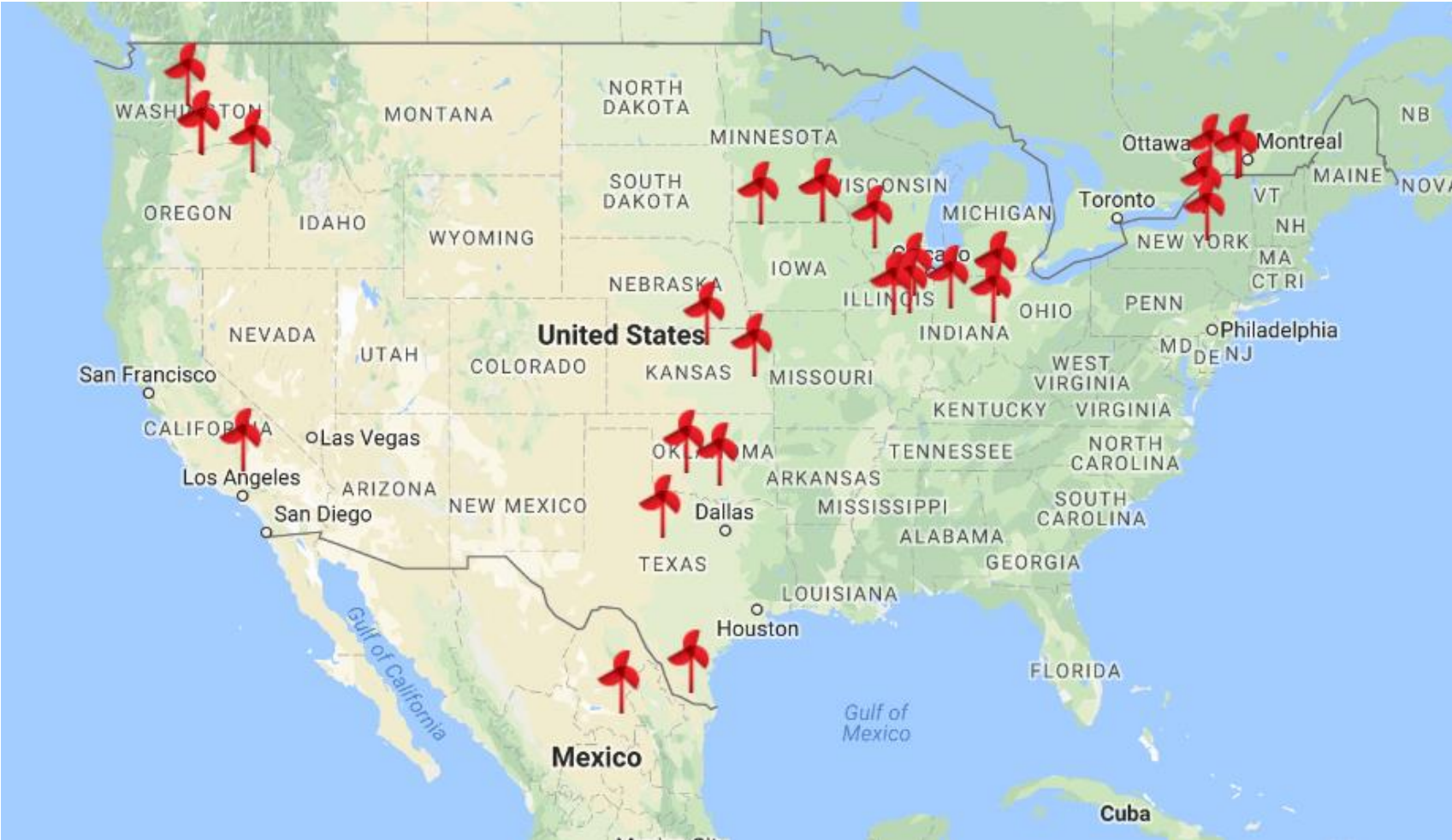
2/8/2018

Applicant background

- Lexington Chenoa Wind Farm LLC, otherwise known as Bright Stalk Wind Farm, is a wholly owned subsidiary of EDP Renewables North America LLC “EDPR”
- EDPR is the fourth largest operator of wind farms in the United States¹ with headquarters in Houston, Texas
- Operate 796.5 MW in Illinois including Rail Splitter, Top Crop I and II, and Twin Groves I and II
- As an owner and operator we are very invested in the communities in which we work

1 Statista 2016 US rankings

Operating Projects



Project Summary

- Up to 58 wind turbines
- Vestas 136 3.45MW or 3.6MW
- Access roads
- Collection lines (underground)
- Project substation and switchyard
- Two permanent met towers
- Laydown yard
- Operations and maintenance building





Project Overview

Legend

- Turbines
- ▲ Met tower
- Operations Building
- Switchyard
- - - Collection line
- Access Road
- Laydown yard

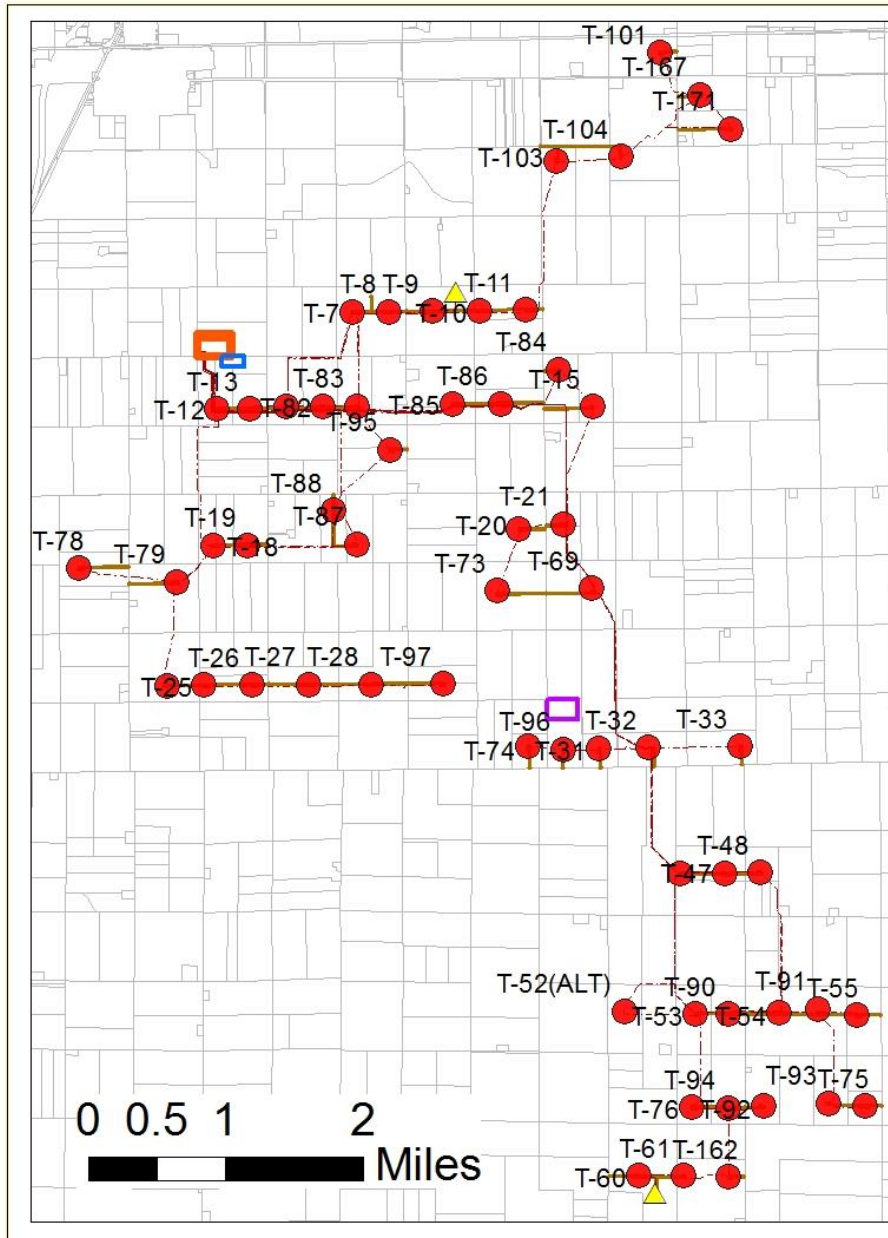
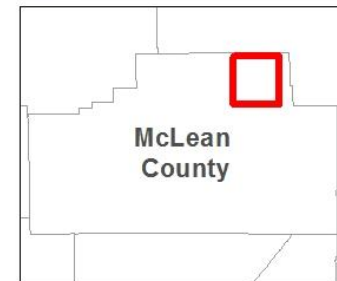
Projection - Illinois State Plane East (US Feet)

Data Sources - EDPR, ESRI, McLean County, State of Illinois, University of Illinois, Ventyx



Notes -

1:54,375



Ordinance Setbacks

- No turbines are within:
 - 1.5 miles of incorporated township corporate limits
 - 2,000 ft of a Residential-1 or Residential-2 District
 - 1.1 x turbine height from public roads, transmission lines, communication towers, or property lines of non-participating property owners
- Two turbines are less than 1,644ft (3 x turbine height) and more than 1,500ft from two homes. Waiver agreements have been signed for both homes.

Project Design

Project stakeholders often have related or conflicting needs and interests:

- Airstrips and aerial applicators (crop dusters)
- Drainage districts
- Emergency services
- Environmental groups (USFWS, IDNR, local experts)
- Homeowners, farmers, and landowners
- Townships
- School districts
- And others!

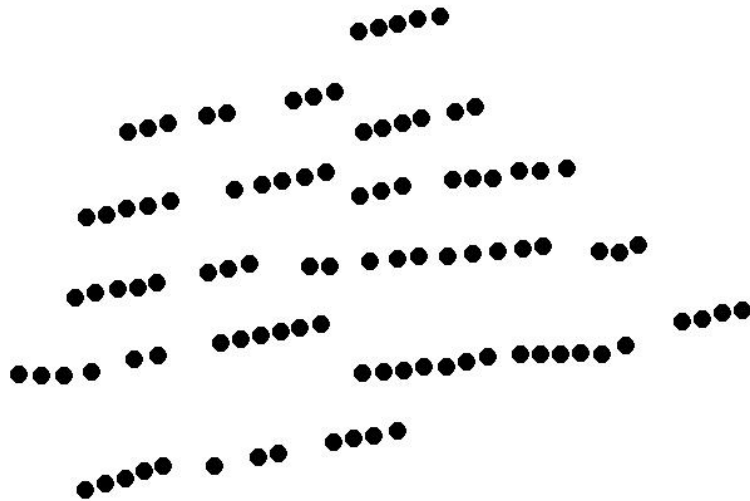


Wind Turbine Selection

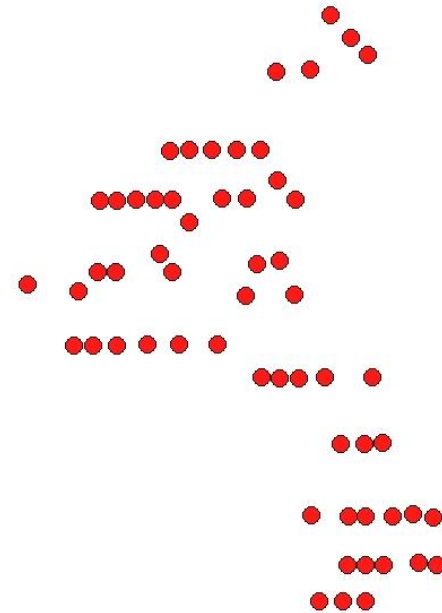
- Turbine selection depends on site characteristics, market factors, and community needs
- A 205.2MW project might be 102 x 2.0MW turbines or 57 x 3.6MW turbines
- The use of fewer, larger turbines reduces community impacts
- The McLean County Zoning Ordinance tip height requirement of 550ft limits larger turbine options

Turbine size and layout comparison

100 x 2 MW turbine layout



58 x 3.6MW turbine layout



Visual

- Although there are no requirements for shadow flicker, EDPR has a policy of evaluating potential shadow flicker impacts on all of our projects.
- In this project it is projected that three residences could experience >30 hours of flicker per year. Bright Stalk has proactively reached out to these landowners and have signed them each to a neighbor agreement.



Sound

- Illinois Pollution Control Board standards limit sound at residences and property lines
- DNV conducted extensive studies using conservative assumptions to determine sound impacts
- The Project meets all State and County sound requirements



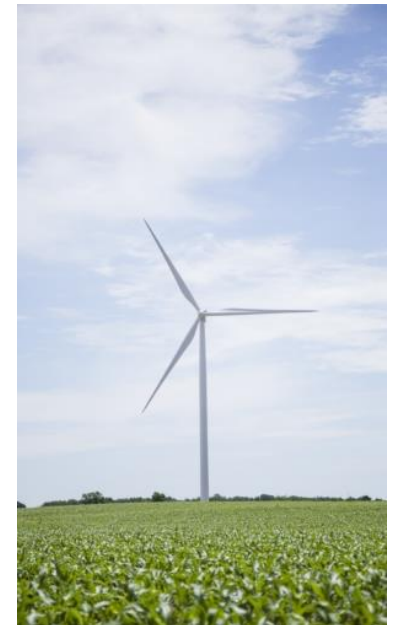
Cultural and Historical

- TetraTech conducted literature and research to identify potential sites within 1 mile of the Project
- On-site physical investigations were conducted anywhere ground disturbance was anticipated to occur
- The Project is unlikely to have an adverse effect on archaeological sites or historic properties



Decommissioning

- Total cost is \$2,632,800 (Burns & McDonnell)
- Assumes removal of project components to a depth of 5 ft
- Financial assurance for the decommissioning fund will be posted per the Agricultural Impact Mitigation Agreement:
 - \$263,280 in the first year of operations
 - \$1,316,400 in the 5th year of operations
 - \$2,632,800 in the 10th year of operations



Economic Impact

- Property Taxes: ~\$2,500,000 in its first year of operation and ~\$42,700,000 in its first 20 years of operations
- Jobs: up to 300 seasonal positions during construction and up to 13 local permanent positions
- A significant portion of total project costs are spent locally



Economic Impact: Twin Groves I and II

- Twin Groves I and II are located near Ellsworth in McLean County
- 396MW and 240 wind turbines
- 397 construction jobs
- 32 permanent operations positions
- As of 2016 \$24.4 million in payments to local governments
- Between 2008-2016 generated ~\$90.1 million in local spending within 50 miles of the wind farm



Conclusion

- Advanced project
- Larger turbines deliberately selected to reduce impacts
- EDPR is an owner-operator of wind projects and is naturally invested in addressing community concerns

