

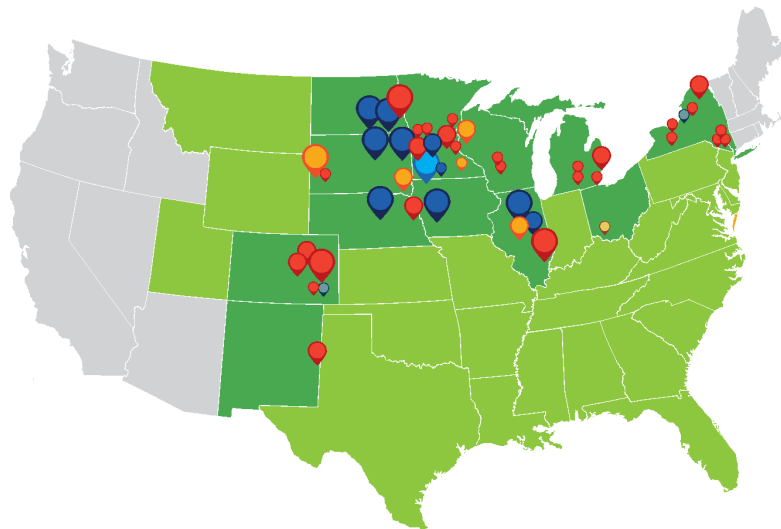


**South Dakota Public Utilities Commission**  
***Public Input Hearing***

SEPTEMBER 13, 2017

## About Geronimo Energy

Geronimo Energy is full-service, American renewable energy company that has successfully delivered over 1,600 megawatts of wind and solar projects that are currently in operation or under construction throughout the United States. Project partners for this portfolio include:



- Geronimo Presence
- Geronimo Expansion Presence
- Advanced Wind Projects
- Advanced Solar Projects
- Early Stage Wind Projects
- Early Stage Solar Projects
- Greenfield Wind Sites Identified
- Greenfield Solar Sites Identified



# Crocker Wind Farm

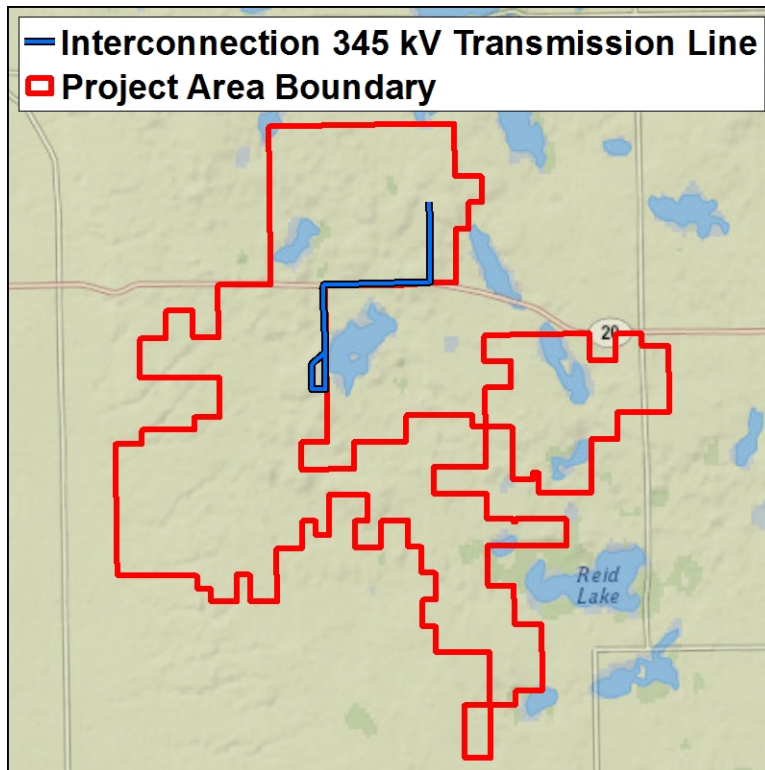
## PROJECT DEVELOPER

- Crocker Wind Farm, LLC, a wholly owned subsidiary of Geronimo Energy, LLC

## PROJECT DETAILS

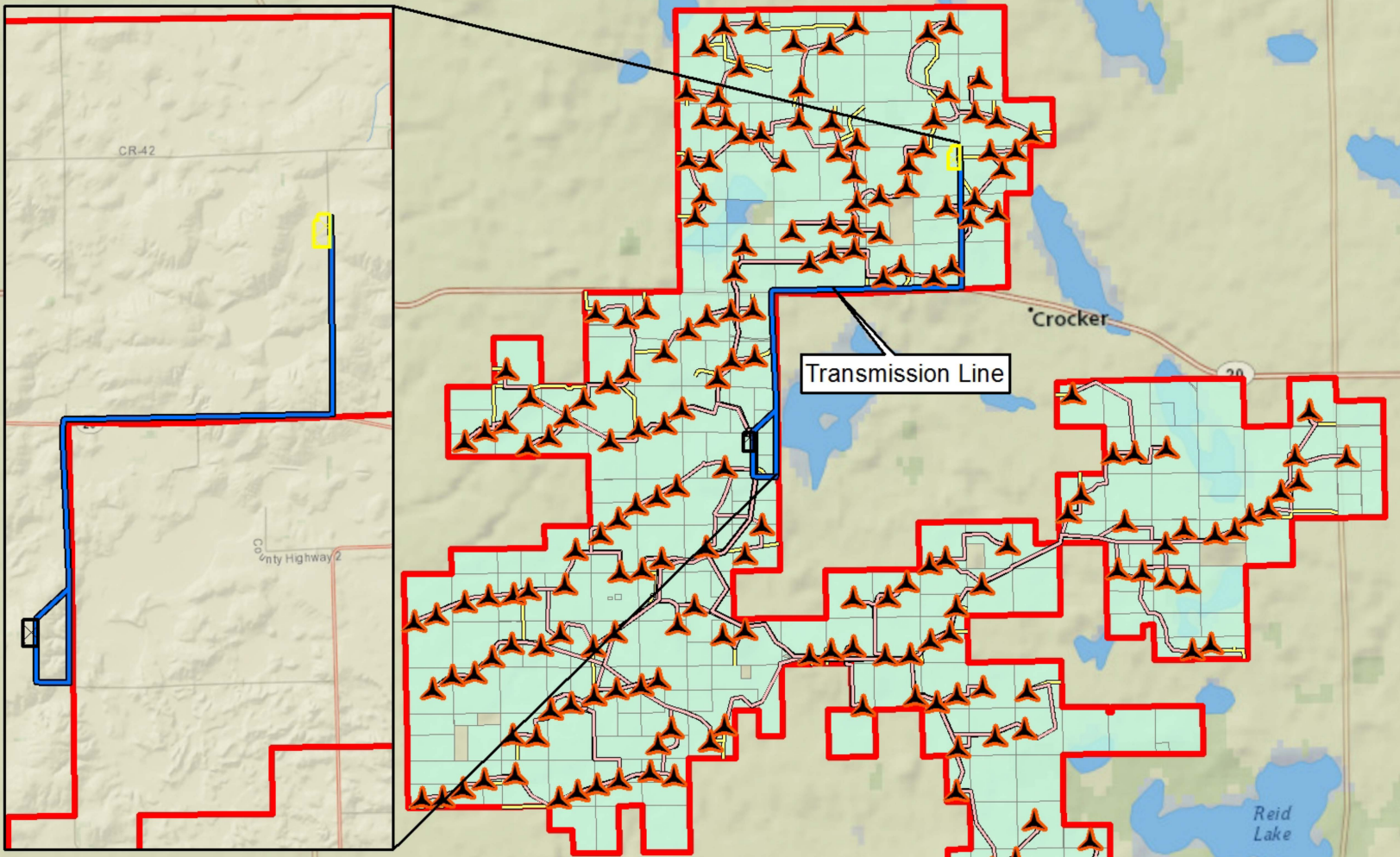
- Up to 400 MW
- Up to 200 turbines, depending on model selected
  - Maximum height of 500 feet
  - Maximum rotor diameter of 446 feet
- Underground 34.5 kV collection system
- Access Roads
- MET Towers
- Transmission Line Route ~ 6.5 miles of 345 kV interconnecting to the Basin Electric Groton-to-Watertown transmission line









## Project Location/Schedule



- Located near Crocker in Spring Valley, Warren, Ash, Woodland and Cottonwood Townships
- Project area ~ 30,000 acres
- ~60 participating landowners
- Project facilities will be located on ~237 acres, less than 1% of project area
- Targeting construction as early as the third quarter of 2018
  - ~12-18 months to construct
  - COD end of 2019

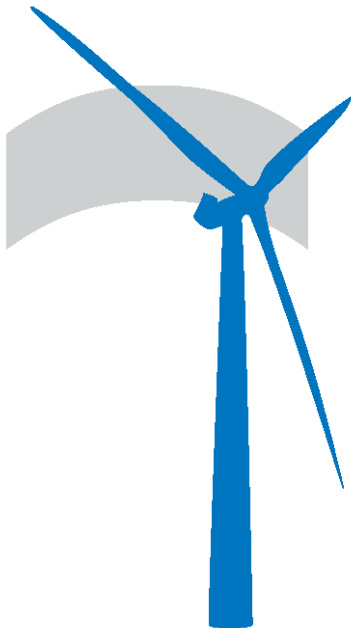




-  Preliminary Turbine Location
-  Project Substation
-  Interconnect Substation
-  Interconnection 345 kV Transmission Line
-  Preliminary Collection Line
-  Preliminary Access Road
-  Project Area Boundary
-  Participants

# Economic Benefits (based on 400 MW project)

Capital Infrastructure  
Investment roughly  
**\$600 million**



**~250**  
temporary  
construction  
jobs



**~\$46 million**  
over 20 years  
(~\$2.3 million average  
per year)

**Landowner  
Payments**  
to participating  
landowners

**~\$1.6 million**  
over 20 years  
(\$80,000 per year)

**Community  
Fund**

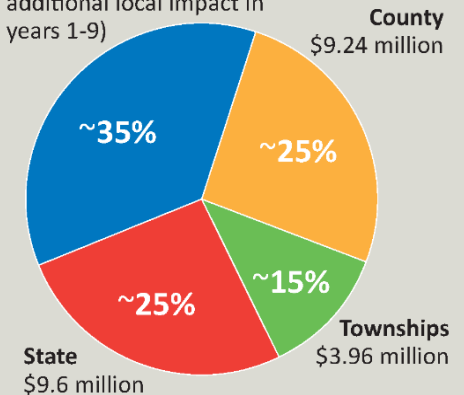
**10-20  
Full-time  
Jobs**  
(up to \$24 million in  
wages over 20 years)



**Tax Revenue**

**~\$36+ million**  
over 20 years  
(~\$1.8 million per year)

**School Districts (state  
and local impact)**  
\$13.2 million total  
(includes \$4.6 million  
additional local impact in  
years 1-9)



## Economic Benefits – Community Fund

### WHAT IS IT?

- 501(c)(3) organization
- Guarantees annual payments for 20 years of an operational wind farm
- Purpose: provide charitable funds from the project to the local project area
- Up to \$80,000 per year for a 400 MW project
  - \$20,000 per year for every 100 MW
- Spending of the fund is fully controlled and advised by a nominated board of signed landowners and/or members of the community.

### What have other project communities done with these funds?

- Purchased new fire truck and ambulance
- Provided scholarships
- Provided local business grants
- Improved or built city and school parks
- *And more!*

## Project Development Milestones

### SECURE SITE

- Land acquisition is complete through voluntary lease agreements with landowners

### COLLECT DATA

- Three meteorological towers in the Project Area with years of data

### INTERCONNECTION AGREEMENT

- Existing agreement allows project to connect to the transmission grid

### IDENTIFY EXISTING CONSTRAINTS

- Regulatory, existing infrastructure including transmission, roads, etc.

### PRELIMINARY LAYOUT

## Project Development Milestones (cont.)

### FIELD STUDIES

- ~90% complete, includes field review and environmental studies

### LANDOWNER INPUT

- Meetings for feedback on facility locations

### SECURE PERMITS

- Local, state, and federal

### FINALIZE LAYOUT

- Select turbine and complete geo-technical studies

### SELL POWER

- Power will be sold under a PPA or potentially owned by a utility



## Public Infrastructure

*Prior to construction coordination/ agreements will occur to ensure safety and minimize impacts.*

- ITC, rural water, pipelines, residential electrical services
- SD PUC Road Bond
- County/Township Road Agreements:
  - Pre-construction conditions
  - Modifications for construction
  - Terms for maintenance/cost reimbursement
  - Post-construction restoration





## Key Parts of Wind Farm Construction

- Access Roads
- Foundations
- Delivery of Equipment
- Erection of Turbines
- Collector System
- Substation
- Transmission Line
- Restoration and Repair



## Key Parts of Wind Farm Construction

### *Access Roads*





## Key Parts of Wind Farm Construction

### *Foundations*





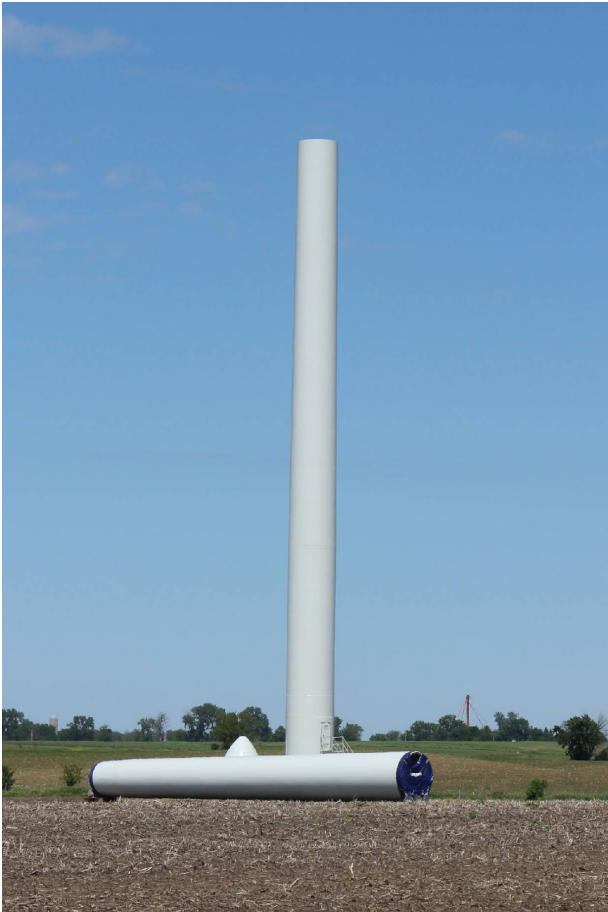
# Key Parts of Wind Farm Construction

## *Delivery*



# Key Parts of Wind Farm Construction

## *Erection*





## Key Parts of Wind Farm Construction *Collector System*





## Key Parts of Wind Farm Construction *Substation*





# Key Parts of Wind Farm Construction *Restoration*





## Decommissioning

*At the end of commercial operation, project owner is responsible for removing facilities:*

- Turbine removal
- Underground collection
- Substation and interconnection facilities
- Turbine and substation foundation removal
- Access roads
- Financial assurance will be provided as required by permits and applicable law

**Thank you!**



Geronimo Energy  
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