

Session 3: South Dakota Wind Projects

South Dakota
Wind Energy Conference
October 18-19, 2000
Daniel Ziebarth
East River Electric Power Cooperative



Your Touchstone Energy® Cooperative
The power of human connections

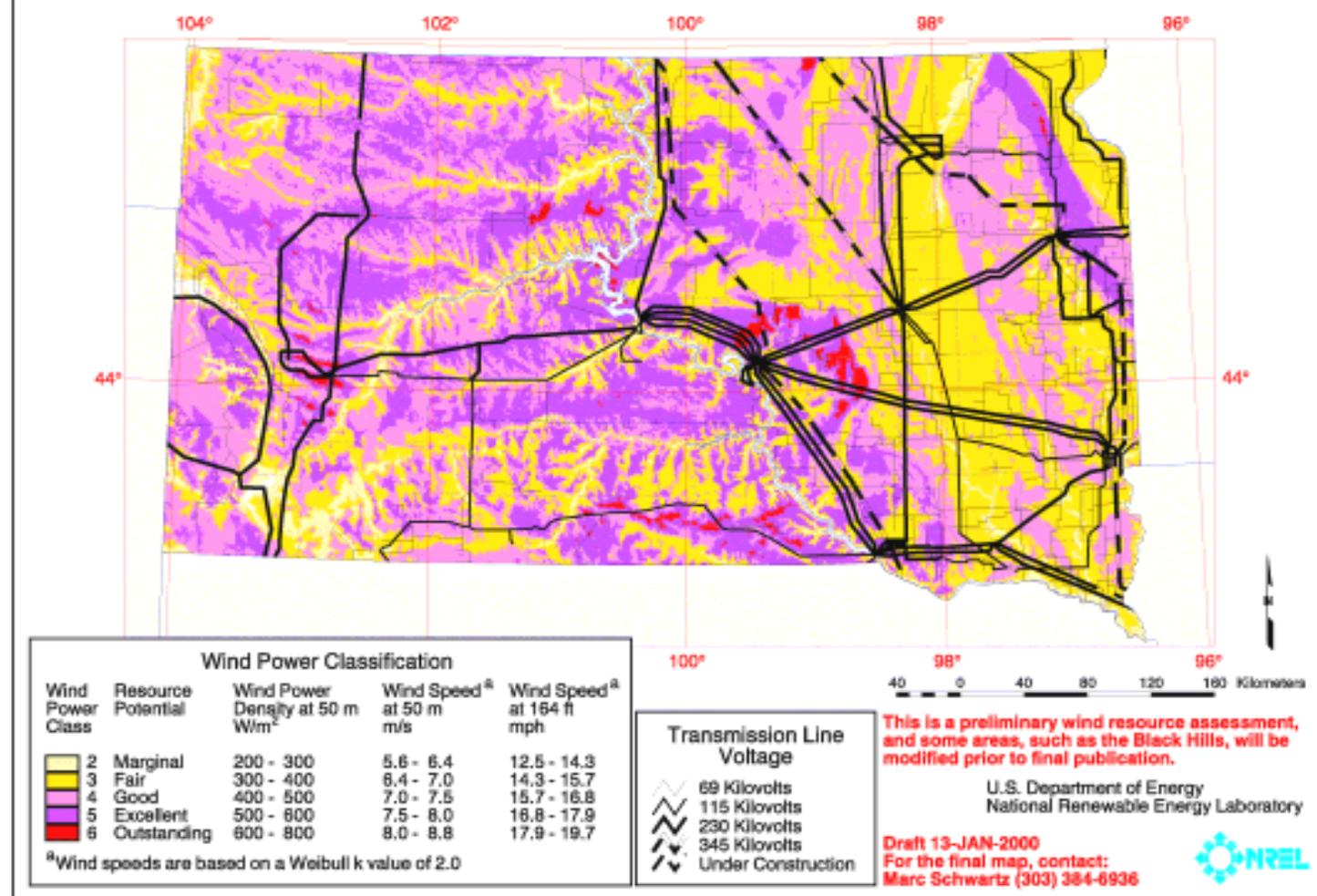




Helen of Troy...

*The Face That Launched
A Thousand Ships!*

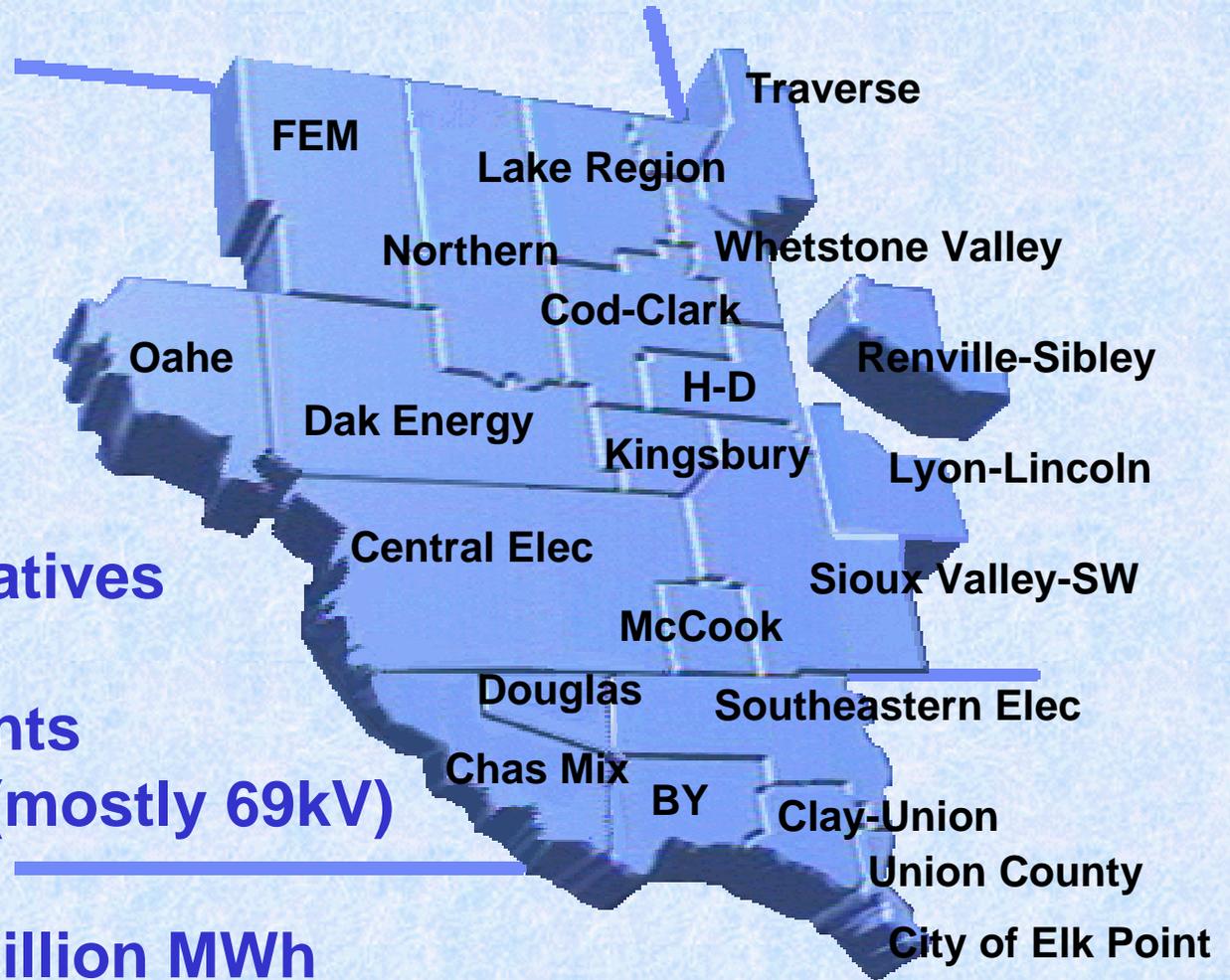
South Dakota - Preliminary Map of Favorable Wind Resource Areas



The Map That Launched A Thousand Wind Generators

East River Electric Power Cooperative, Inc.

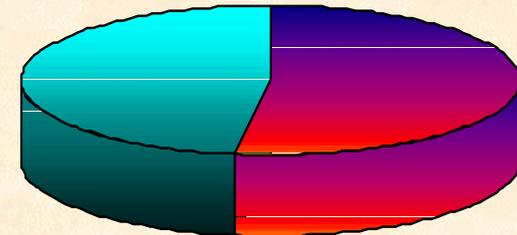
A rural electric transmission cooperative.



- **21 member cooperatives**
- **1 municipality**
- **77,000 retail accounts**
- **2,500 miles of line (mostly 69kV)**
- **202 substations**
- **Annual Load: 1.7 Million MWh**

East River's Power Providers

- Basin Electric - 60%
 - Coal-fired generating plants in North Dakota and Wyoming
- Western Area Power Administration - 40%
 - Hydropower dams along Missouri River



■ Basin ■ Western

Why a wind project now?

- **Significant Amount of Consumer Interest**
- **Part of Cooperative's Continued Interest in Wind Energy and Other Renewables**
- **A Great Increase in Wind Energy Activity Nationally, Regionally, and Locally**
- **East River Serves an Area With a Tremendous Wind Resource**



The logo for Prairie Winds Energy In Motion features the company name in a black script font, with 'Prairie Winds' on the top line and 'Energy In Motion' on the bottom line. A green horizontal line is positioned below 'Prairie Winds'. To the right of the text is a stylized green wind turbine icon with three blades. The entire logo is set against a white background within a light green rectangular frame.

Prairie Winds

Energy In Motion

Who...

East River, its Participating Members, and Basin Electric

What...

Offering wind-generated electricity to subscribing consumers at a premium of \$3.00 per 100kWh block

Visit our website @ www.erepc.com

Project Timeline

- ◆ **Oct. 1999: Conducted Surveys Among Consumers**
- ◆ **Dec. 1999: Began Developing Project Concept**
- ◆ **April 2000: Began Marketing / RFP Issued**



Request For Proposals

- ◆ **Project Size: 800 - 1300kW**
- ◆ **Within East River's Service Area (SD &/or MN)**
- ◆ **Within 2 mi of an East River Substation**
- ◆ **Both Power Purchase &/or Turn-Key Options**
- ◆ **Developer to Provide Site**
- ◆ **Developer Responsible for Permitting**

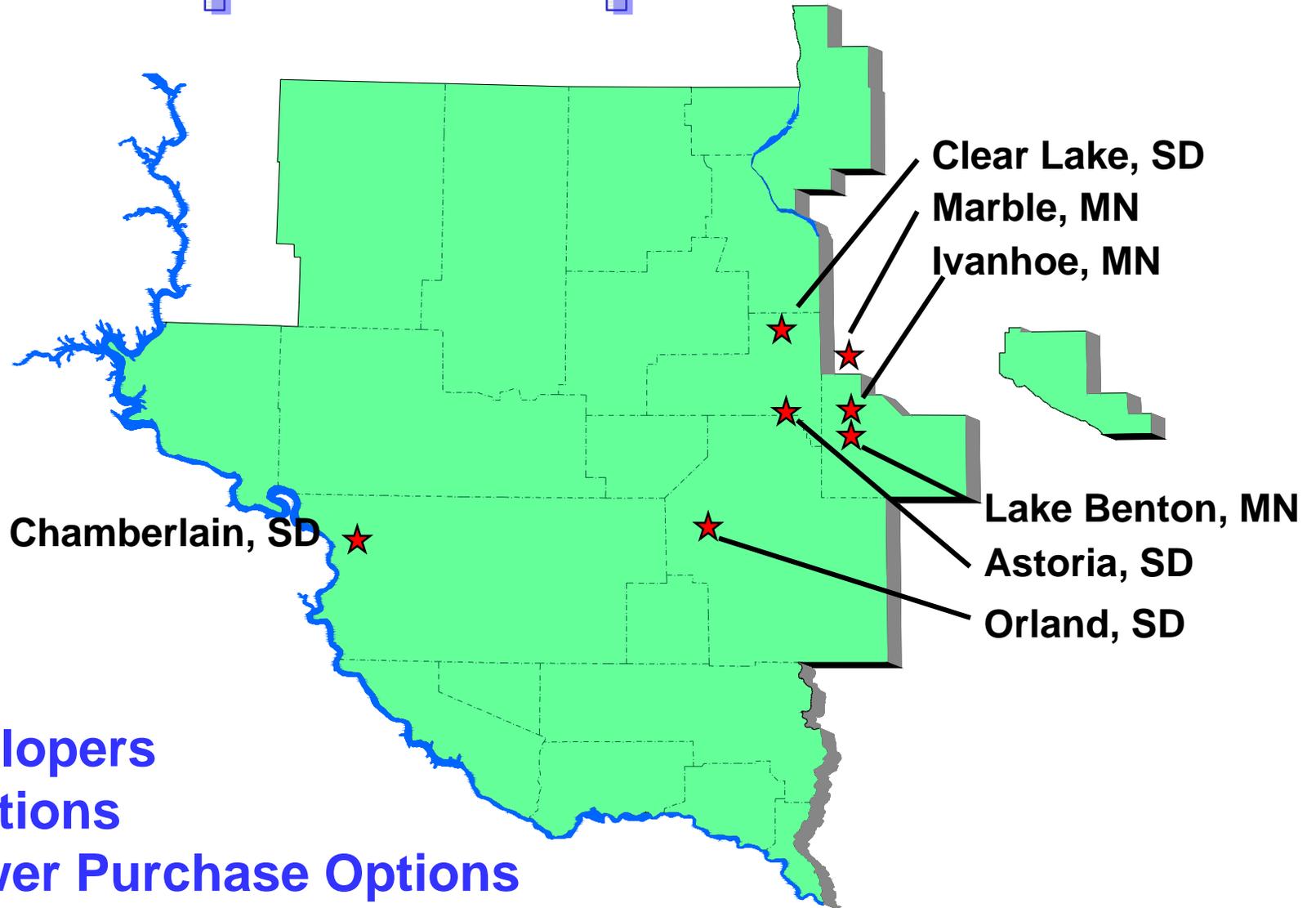


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Developer Response



6 - Developers

8 - Locations

18 - Power Purchase Options

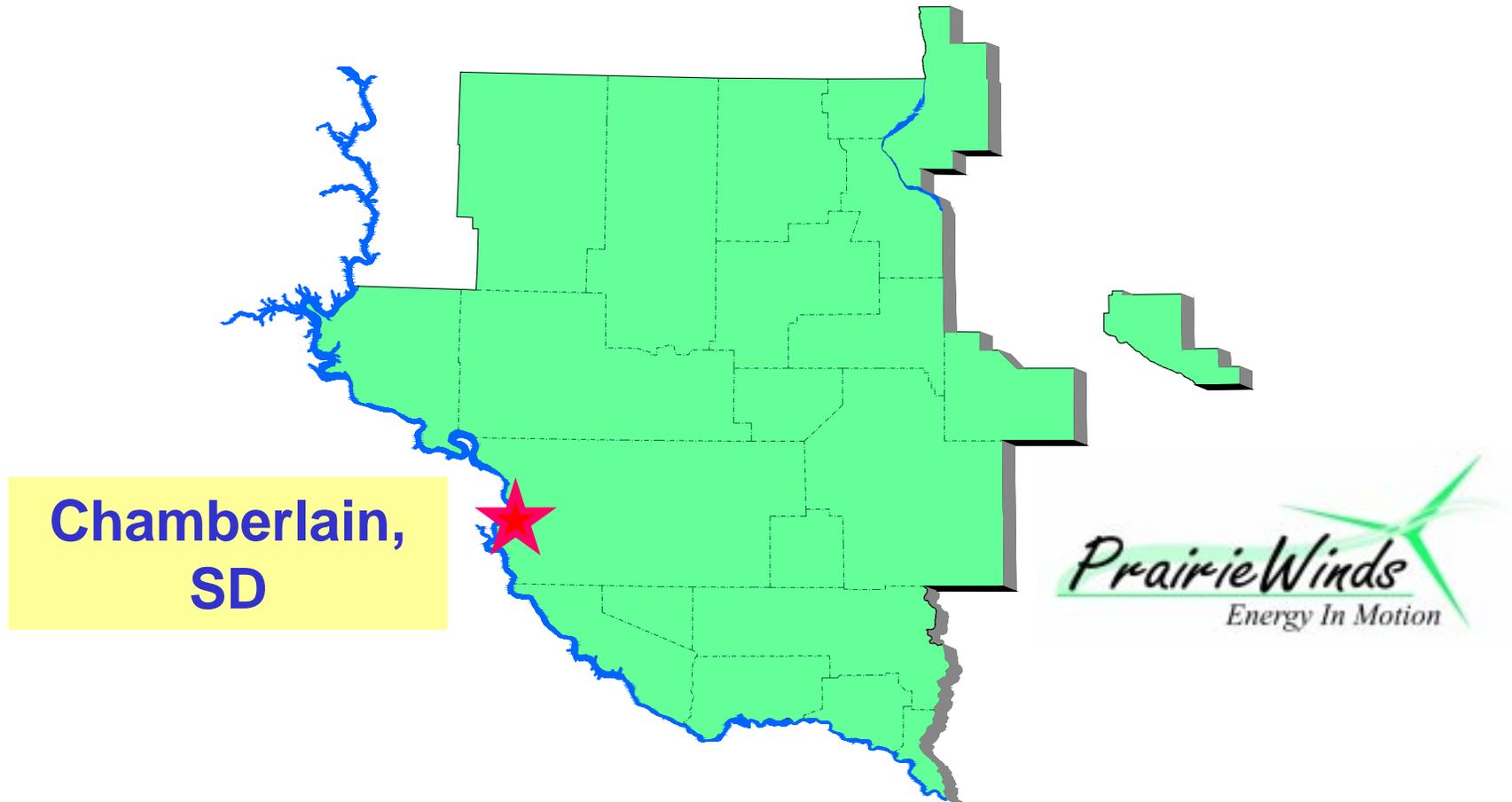
19 - Turn-Key Options

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- ◆ **June - August: Proposal Evaluation**
 - ◆ **Total Project Cost**
 - ◆ **Project Visibility**

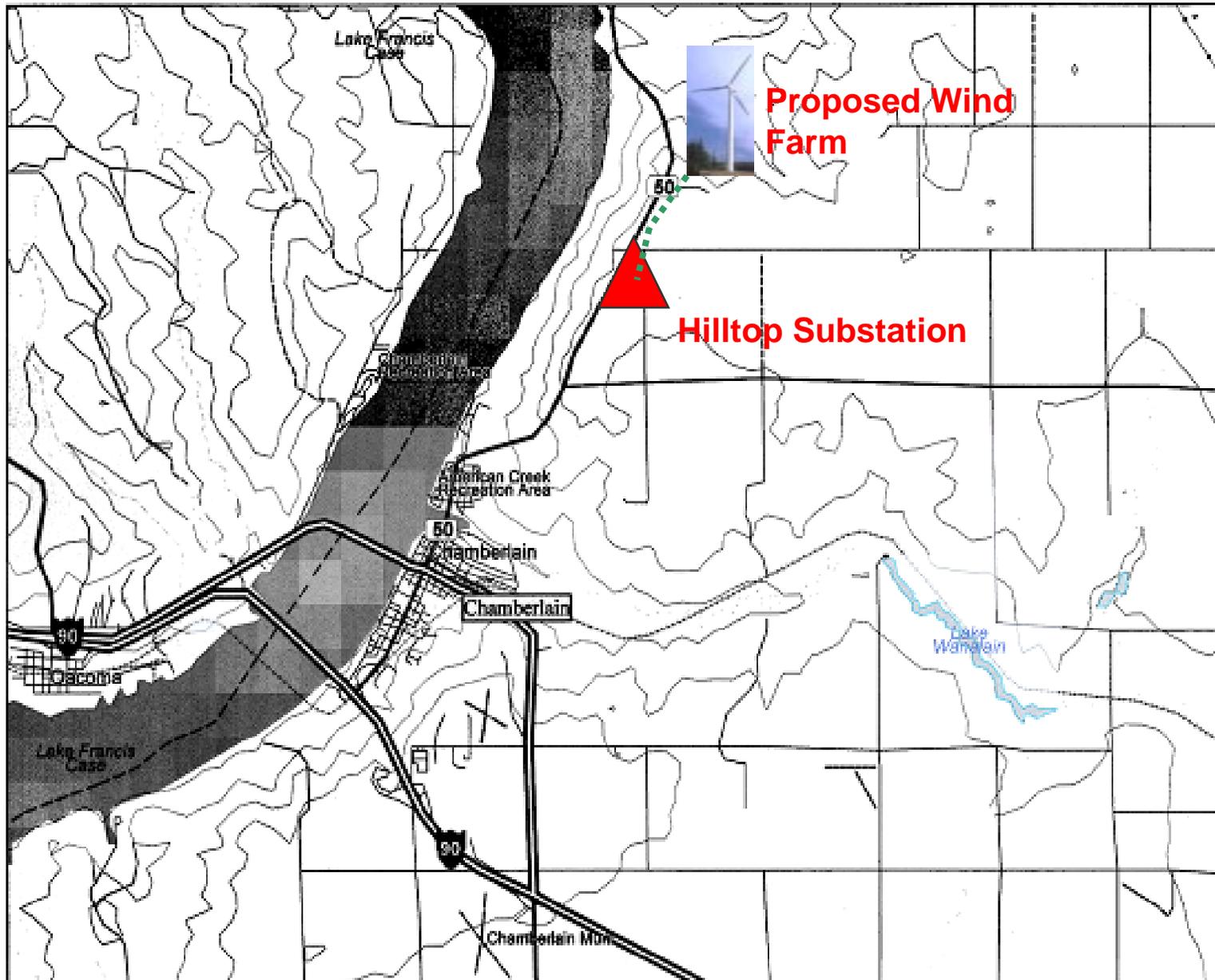


Selected Proposal...



CROWN BUTTE WIND POWER, LLC





Chamberlain Site - # & Locations of Turbines are not final

Looking N from Scenic Overlook & Rest Area - Chamberlain, SD

PrairieWinds Site

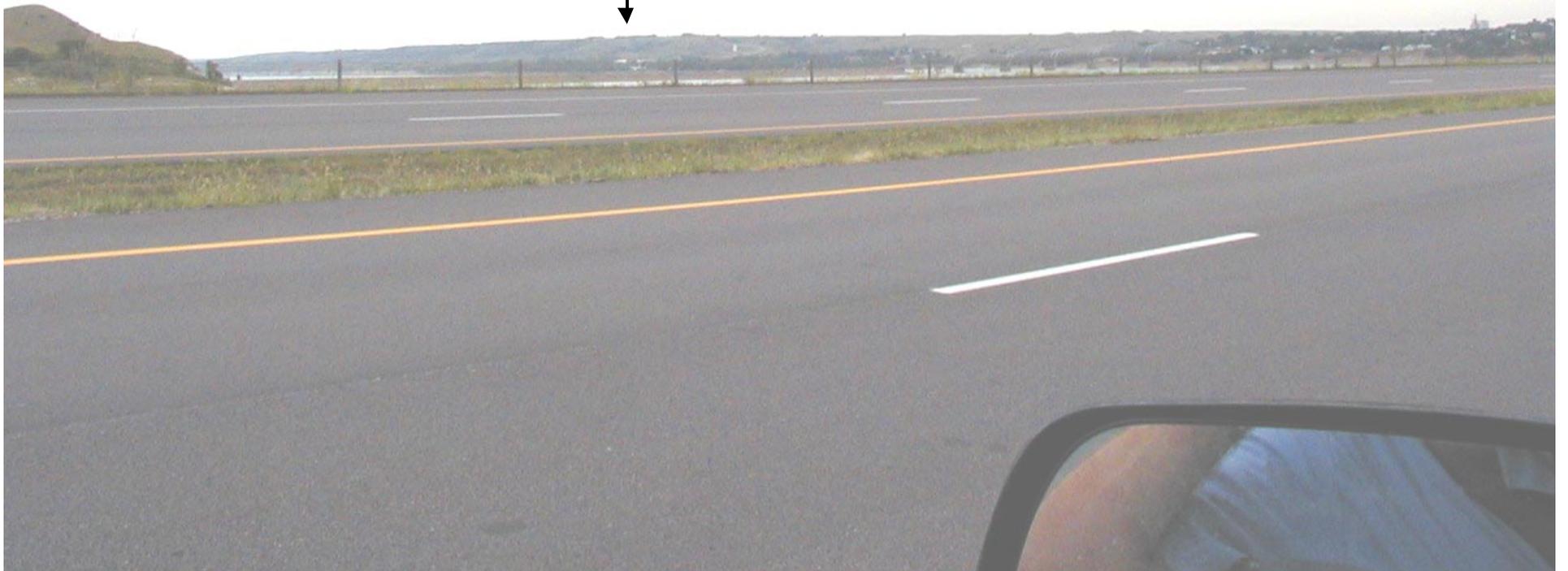


I-90



Traveling E on I-90 just on the W edge of the bridge crossing the Missouri

PrairieWinds Site



Why this location?

- **98% of Consumer Subscriptions from SD**
- **Excellent Project Visibility**
- **Project Distinction**
- **Access to Transmission**
- **Competitive Pricing**



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- ◆ **Winter 2000-20001: Groundbreaking**
- ◆ **MAY 2001: COMMISSIONING!**



- Thank You -

