Nicollet County Wind Energy Conversion Systems Ordinance

MACPZA & MNAPA Training & Legislative Update June 10, 2010

# History of WECS Events

- 7 Non Commercial Turbines Permitted in County Prior to 2005
- Adopted Model Ordinance in November 2005
- Amended State Rules Effective February 2008
- New Ulm Public Utilities Project Met Tower Permitted in September 2008
- Moratorium Adopted in September 2008
- Creation of WECS Committee October 2008

## WECS Committee

Committee Members – 7 (2 Staff)

 2 Planning and Zoning Commissioners
 2 Rural Residents
 1 County Commissioner
 1 City Official
 1 Township Official

12 Meetings Plus the Tour

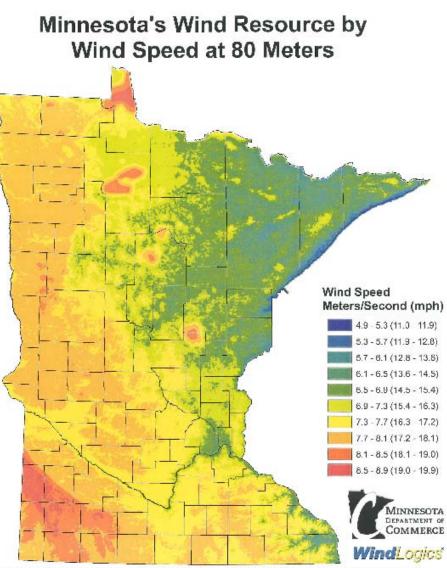
## WECS Committee Tour

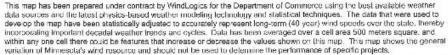
### 3 Sites

- St. Olaf and Carleton Colleges (Northfield)

 – G. McNeilus Wind Energy Company (Dodge Center)

 – Xcel and enXco "Grand Meadow" Project (Dexter)





January 2005

N

52

140

30

– M

Rochester

### 1. Northfield→

Rice

Le Sueur St Peter 22  $\leftarrow$ 

93

Goodhue

**Blue Earth** 

169

60

Waseca

2. Dodge Center Dodge

35

Freimagel© 2008 DigitalGlobe

Faribault 23.4 mi

© 2008 Tele Atlas

3. Dexter-Mower

218

90

63 ©2007 Google

### 1. Northfield

10

N

Stanton Blvg

÷

Ξ

#### St Olaf Turbine

Lonscale BINDE

19

#### **Carlton Turbine**

Sth St W Northfield

Diulsion

Roman Contraction

Dundas Inathonia

7922 ft

Image © 2008 DigitalGlobe

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194

### **1. Northfield**

>

-St Olard

70M Hub Height 82M Rotor Diameter 1.65MW Gen ~1/3 of Power Need

St Olaf

S<sup>I</sup>lmage © 2008 DigitalGlobe

1205 ft

Pointer 44°27'40.57" N 93°11'32.27" W

Lonsdale Blvd E

© 2008 Tele Atlas

Streaming |||||||| 100%

Eye alt 4166 ft

19

∍00gle"

#### 1. Northfield

832 11

93°06'54.52" W

Pointer 44°27'28.06" N

Carlton Turbine Located ~1-1/2 Miles East of Campus ÷

70M Hub Height 82M Rotor Diameter 1.65MW Gen

90th St E

Image © 2008 DigitalGlobe

© 2008 Tele Atlas

Streaming |||||||| 100%



Eye alt 2876 ft

### 2. Dodge Center

Dodge\_Center\_11

Dodge

G. McNeilus Wind Energy Company→

213/20



63



4

N

2.22 mi

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56 Turbines On >1000-Acres in Two Townships

**Power >22,000 Homes at Projected Capacity** 

#### 3. Dexter

Both Sites Began as a Single ~200MW Project Developed by enXco

3.46 mi

Xcel Energy Bought ~100MW "Wapsipinicon" Project

> enXco Owns 100MW "Grand Meadow" Project and Will Operate & Maintain for Xcel

> > @2007.

Goog

Elkton

Mower

Dexter

**Napsipinicon**<sup>3</sup>

90

and Meado

Area

Project

© 2008 Tele Atlas

#### 3. Dexter "Grand Meadow" Project

Grand Meadow T-122 GDM-311

Will Consist of 67 1.5MW Turbines When Complete

**Power >33,000 Homes at Projected Capacity** 



- Larry Hartman, MN Department of Commerce
- Dr. Nina Pierpont, MD, PhD
- Dr. Thomas Huber, Gustavus Adolphus College
- Richard James, INCE E-Coustic Solutions
- Minnesota DNR Wildlife Experts
- Aerial Applicators and Air Ambulances
- Industry Reps/Wind Farm Operators

## Where are we today?

- Adopted WECS Ordinance August 2009
- Rescinded Moratorium August 2009
- December 2009, a variance was denied to reduce the ½ mile setback for a commercial turbine.
- On June 21<sup>st</sup>, 2010, P&Z Commission will hold a public hearing for a WECS project that will consist of 3 non commercial turbines.
- Continue delegation authority discussions.

## WECS Fees

Micro - \$50
Non Commercial - \$250
Commercial - \$500

Conditional Use Permit - \$350
Recording Fee - \$46

# Questions?