

# **How To Implement A Successful State Wind Working Group:**

## **Non-Profit Guidance of Ohio's Wind Working Group, 2003–2005**

**Bill Spratley, Executive Director, Green Energy Ohio**

**Wind Powering America State Summit, Evergreen, Colorado**

**May 19, 2005**

# Ohio Wind Working Group

## *Smart Wind Energy Plan for Ohio*

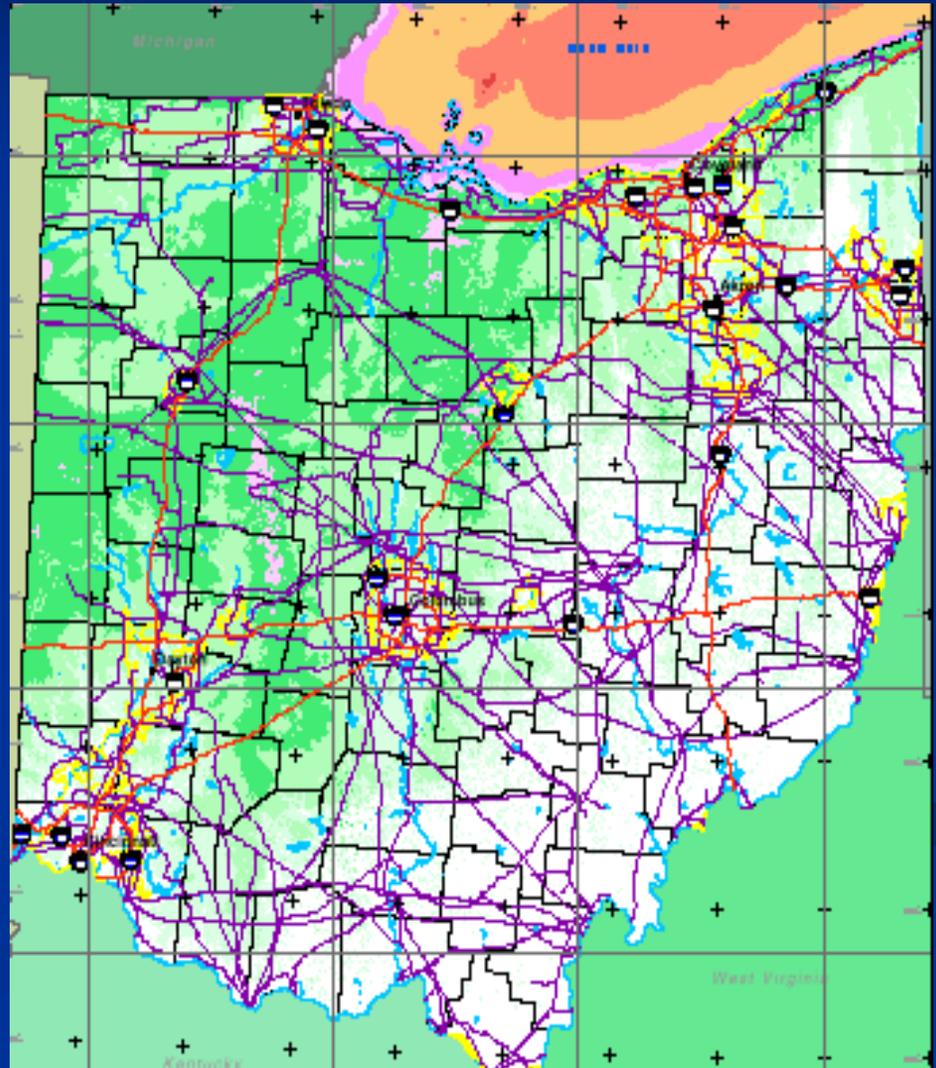
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29 Ohio Stakeholders'  
Share Perspectives

Ohio's Interactive  
Wind Resource Map

More Wind Resource  
Assessment in 2005

New OWWG Web Site  
[www.OhioWind.org](http://www.OhioWind.org)



# **Lessons Learned**

- 1) One-Stop Forum for Consensus & Informational Clearinghouse***
- 2) Volunteer Wind Chasers in the “Got No Respect (Wind)” State of Ohio***
- 3) Scientific Credibility Attracts a Crowd***
- 4) Seeing Is Believing for Utility-Scale Wind (and Small-Scale Too!)***
- 5) Private/Public Partnerships Link to  
Local, State and Federal Governments***

# 1 – One-Stop Forum for Consensus & Informational Clearinghouse

## Ohio Wind Working Group Overview

Open Door for 29 Key Stakeholders for Consensus-Building

Sub-Divide Smart Wind Development Plan by Committees

Economic Development – 2004 REPP Wind Jobs Report

Regulation & Policy – Governments Role on Wind Power

Education & Outreach – Marketing to Multiple Audiences

Wildlife Issues – Siting Collaboration / CESA Pilot?

Wind Resource Assessment – Have Map, Will Test More

**Ohio's opportunity for wind industry manufacturing jobs is second only to California.**

**Up to 12,000 new jobs could be created in Ohio, one of the states hardest hit by manufacturing job losses**

- Renewable Energy Policy Project (REPP)  
[www.repp.org](http://www.repp.org)

# Ohio Wind Working Group

American Electric Power

American Municipal Powet

American Wind Energy Association

Arcadia Windpower/Bluewater Wind

Bowling Green Municipal Utilities

Bowling Green State University

Cinergy Corp.

The Cleveland Foundation

Community Energy

Entrepreneurs for Sustainability

First Energy Corp

Gamesa

Green Energy Ohio

Green Mountain Energy Company

Leadership Cleveland

# Ohio Wind Working Group

Ohio Office of Consumers' Counsel

Ohio Department of Development

Ohio Department of Natural Resources

Ohio Environmental Protection Agency

Ohio Environmental Council

Ohio Farm Bureau Federation

Ohio Farmers Union

Ohio Power Siting Board

Ohio Rural Electric Cooperatives, Buckeye Power

Public Utilities Commission of Ohio

TrueWind Solutions, LLC

US Army Corps of Engineers

US Department of Energy Chicago Regional Office

US Environmental Protection Agency – Region 5

US Fish & Wildlife Service

# Wind Conferences & Workshops Generate Power for Ohio Wind

## Ohio Utility Scale Wind Seminar – Cleveland – June 24, 2005

Cleveland Foundation Support for GEO and Crib Project

Larry Flowers, WPA/NREL

Bruce Bailey, AWS Truewind

GEO Crib Project Test Tower

9<sup>th</sup> OWWG Meeting at City of Cleveland Public Utilities (Carl Stokes) Building

## Bowling Green State University – Bowling Green – May 13, 2005

8<sup>th</sup> OWWG Meeting at BGSU

Joint Luncheon with NW Ohio Partnership for Alternative Energy funded by NSF

Policy Presentations by GEO's Bill Spratley and PennFuture's John Hanger

GEO 5<sup>th</sup> Annual Meeting at BG Wind Farm – 210 in Attendance on May 14, 2005

## 2<sup>nd</sup> Ohio Wind Power Conference – Cleveland – November 9-10, 2004

35 Expert Speakers, 17 Exhibits in Trade Show, 310 in Attendance, Extensive Media

First Ohio Investor-Owned Utility Panel on Commercial Wind with PUCO

5<sup>th</sup> OWWG Meeting after Conference

*REPP Report Overview*

Using Interactive Ohio Wind Map



# 2004 Ohio Wind Power Conference

Promote Ohio Wind Power for Small & Utility-Scale Sites

- Attended by 310 people
- Over 30 speakers
  - Continued utility-scale wind development in Ohio,
  - Ohio's manufacturing opportunities for the wind industry.



Return to Cleveland on June 24, 2005  
for Utility Scale Wind Seminar

# Wind Conferences & Workshops Generate Power for Ohio Wind

## 3<sup>rd</sup> OWWG Meeting Case Western Reserve – Cleveland – Feb. 2004

Off-Shore Wind Discussion by Long Island Bidder – Arcadia/Bluewater

Cleveland Interests and Wind Industry Economic Development in Ohio

## 1<sup>st</sup> OWWG Meeting – Bowling Green – Sept. 2003

Expert Presentations & Tour of Wind Turbine Construction

## 1<sup>st</sup> Ohio Wind Power Conference – Dublin (Columbus) – Nov. 2002

GEO/OEE Organize Ohio Clean Energy Business Association (OCEBA)

(See *Creating Jobs & Clean Energy in Ohio Report*, November 2002)

## Other OWWG Meetings at Office of Energy Efficiency, Ohio Dept. of Development at State Office Building in Columbus

2004 & 2005

# Ohio Wind Working Group

## *Smart Wind Energy Plan for Ohio*

**Bowling Green Meeting**  
**September 2003**



## **2 – Volunteer Wind Chasers in the “Got No Respect (Wind)” State**

**GEO-logical history: OREO + SEED Ohio = Green Energy Ohio (GEO)**

**SEED-Ohio/GEO Volunteers Monitor Northern Ohio Wind – 1997-2005**

**Short History of Bowling Green Wind Farm – Muni & GEO Wind Test**

**Lake Erie Wind Energy Assessment Initiative – GEOs Plan for 4 Years**

**98 GEO Volunteers Recognized at 5<sup>th</sup> Annual Meeting May 14, 2005**

**Solar, Wind & Education – So Happy Together! Wind Farm Solar Kiosk**

**GEO Non-Profit “Fee for Service” Wind Testing Business?**

# GEO Volunteer Wind Test Led to First Commercial Wind at BG



**GEO Volunteers and  
Bowling Green Muni  
Utility Team-Up to Test  
Wind in 2001**



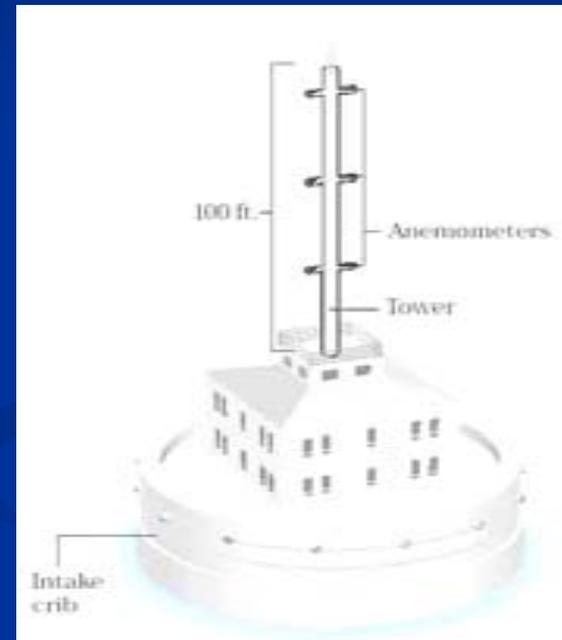


# Lake Erie Wind Assessment Initiative

## Measuring Technical Feasibility of Off-Shore Wind



**3,5 Mile Water Intake Crib with PV  
Off Cleveland Lakeshore**



**GEO Proposed Wind Test Tower  
*Plain Dealer February 26, 2003***

### **3 – Scientific Credibility Attracts a Crowd**

**GEO 2000-2001 Wind Data at Bowling Green Publicly Available**

**New Ohio Wind Map Guides New Opportunities**

**Ohio Tall Towers Wind Assessment Project with NREL**

**Tower Sites Announced May 14, 2005 by GEO**

**Bryan, Ohio – Williams County – installed May 16**

**Wapakoneta, Ohio – Auglaize County**

**3 or 5 Verizon Wireless Tall Towers in**

**Ashland, Richland, Knox, Morrow or Clinton Counties**

**Lake Erie Wind Assessment Tower on Cleveland 3.5 Mile Water Crib**

**50 Meter Wind Test – Highest Elevation of Any Performed in  
Great Lakes**

**Installation Party Reaches Crib on May 3**

**(on 3<sup>rd</sup> try in U.S. Coast Guard boat/ NOAA data set up)**

**Helicopter Lift of Test Tower to Crib on June 15**

**Installation and Public Review at Cleveland Wind Seminar on  
June 24**

# **Bryan is hoping to take energy project for a spin**

## **City considers a wind farm**



**BRYAN - Metaphorically speaking, the state of Ohio was scaling new heights yesterday when a steeplejack climbed a 350-foot FM radio tower on County Road 12, a mile west of this Williams County town, for a nonprofit group called Green Energy Ohio.**

**The short-term purpose: getting wind instrumentation installed at elevations of 130 feet, 230 feet, and 330 feet.**

**The big-picture goal: getting banks as excited about wind power as renewable energy buffs.**

**Bryan is one of several small towns that have taken notice of the AMP-Ohio/Green Mountain Energy wind farm near Bowling Green, Ohio's first utility-scale wind farm.**

## **4 – Seeing Is Believing for Utility-Scale Wind (& Small-Scale Too!)**

**Ohio Utility-Scale Projects Missing on Midwest Wind Map**

**Gamesa Wind Testing/Landowner Meetings in Logan & Madison Counties Near Highest Point in Ohio at Bellefontaine**

**GEO Ohio Solar Tour**

- Big & Small Wind Sites**
- October and Year-Round**

**Media Interest Increasing Across Ohio – See GEO web site**

**GEO at Ohio Legislature – Ohio Wind Power Activities Highlighted**

**Tour Ohio's First Wind Farm at Bowling Green  
at GEO's 5th Annual Meeting  
Saturday, May 14, 2005 - 11:00 AM to 3:00**



## **5 – Private / Public Partnerships Link to Local, State and Federal Governments**

**Foundation Support of GEO (and SEED-Ohio predecessor) for Bowling Green, Water Crib and Educational Activities on Ohio Wind Power**  
**Annual Ohio Solar Tour including Wind Installations and Hybrids**  
**Ohio Small Wind Tool Kit (500 pages)**  
**GEO Web Site at [www.greenenergyohio.org](http://www.greenenergyohio.org)**

### **Local Government & Ohio Wind Power**

**Municipal Utilities – Bowling Green and others in AMP-Ohio  
(American Municipal Power-Ohio)**  
**Metro Parks – Small Wind Installations at Columbus,  
Lake County and Montgomery County**

### **Ohio Electric Deregulation Benefits for Wind Power**

**Liberal Net Metering**  
**Aggregation – Green Mountain Energy Co. Sidebar Agreement**  
**Taking Green Attributes from Bowling Green Wind Farm  
and Commercial Solar Sites in Ohio**

## **5 – Private / Public Partnerships Link to Local, State and Federal Governments**

### **State Government & Ohio Wind Power**

**Office of Energy Efficiency, ODOD – Ohio Wind Map  
Ohio Small Wind Consumer Guide  
2002 and 2004 Ohio Wind Power Conferences  
Solar & Wind Regional Workshops**

### **Federal Government & Ohio Wind Power**

**Wind Powering America/NREL support of the  
Ohio Wind Working Group  
Ohio Wind Map  
Tall Towers Wind Assessment Project**

**US Dept. of Energy Support of Ohio Wind Power Conferences,  
Workshops and Publications**

**New US Dept. of Agriculture Farm Bill Renewable Energy  
Funding for Rural Ohio Wind Applications**

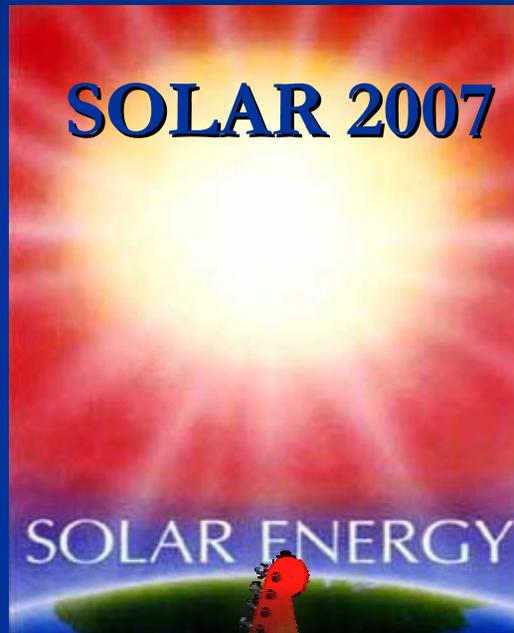
# Green Energy Ohio and Greater Cleveland Host the American Solar Energy Society



**SOLAR 2007**  
**National Solar Conference**  
**July 7 - 12 2007**  
**Cleveland, Ohio**



# Advance the Use of Solar & Wind Energy as the Ohio Chapter of the American Solar Energy Society (ASES)



**Cleveland**  
It'll Rock You

## 2007 ASES National Solar Conference