

Wind Turbine Project

University of Illinois at Urbana-Champaign

South Farms Wind Turbine Project

Public Meeting

December 16, 2010

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Sustainability Coordinator

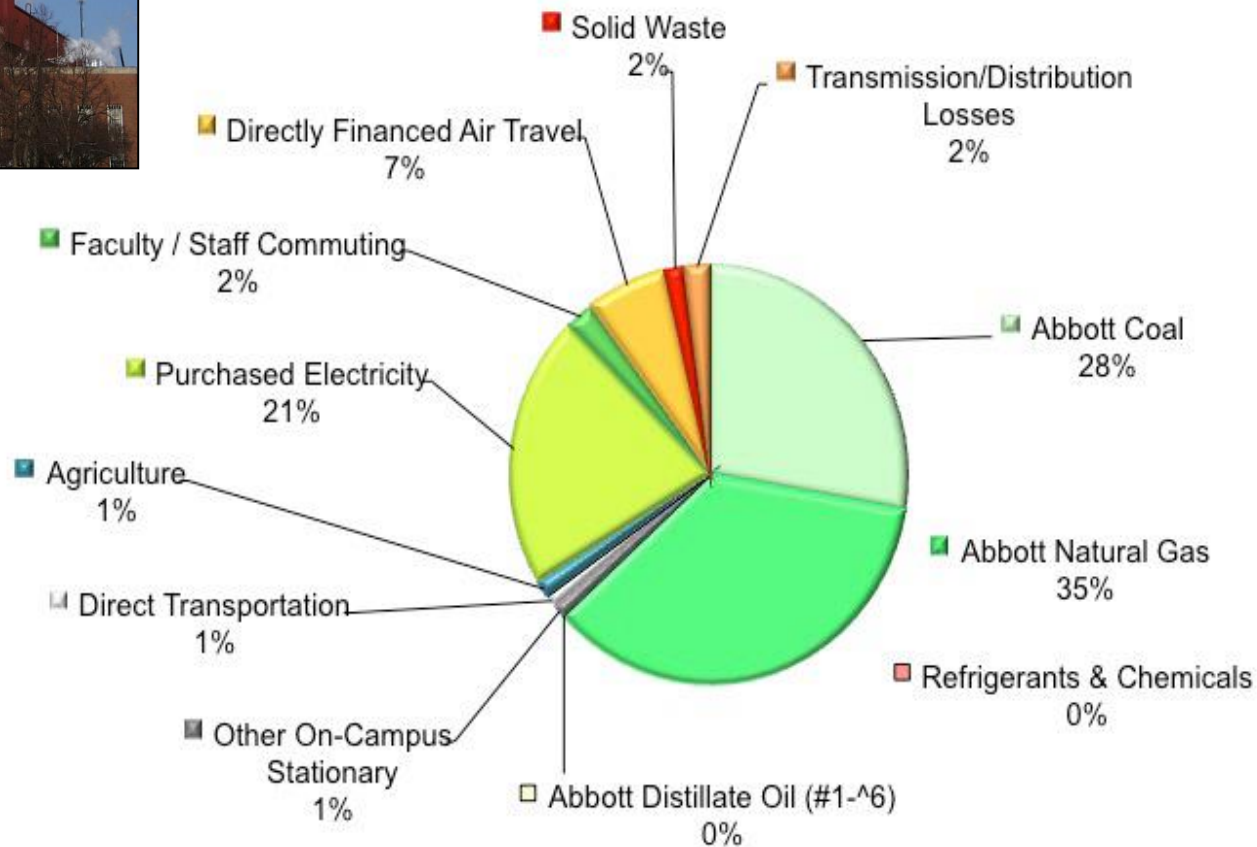
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The Challenge



2008 Carbon Inventory

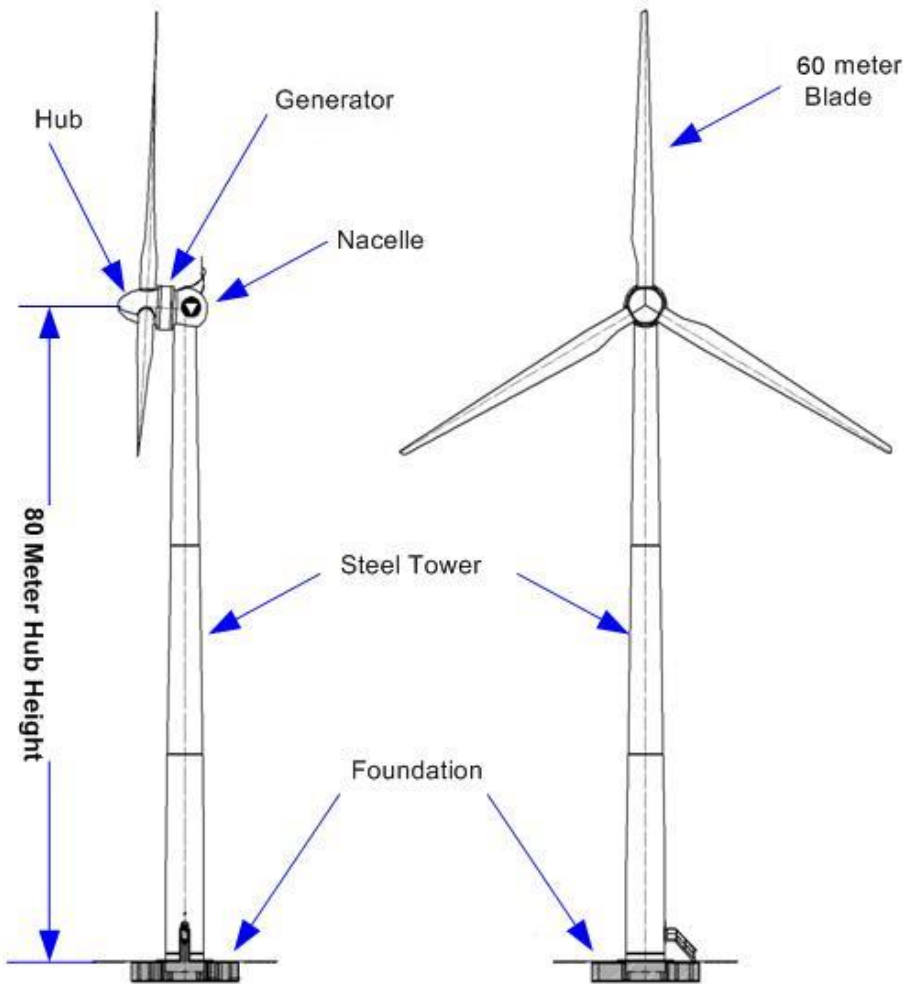


The Benefits

- Reduce dependency on coal
 - Decrease coal related pollution and carbon footprint associated with burning, transporting and mining
- Commitment to carbon neutrality
 - Decrease dependency on fossil fuels
 - Move to renewable energy sources
- Responsiveness to the student community
- Educational opportunities



Pre-Defined Project Scope



- One, two, or three utility-scale wind turbines
- Three locations selected and studied
- Grant requirements
 - At least one 1.5 MW turbine
 - On UI campus
 - Owned by the University

Available Funding

\$4.5M project budget

- Student Cleaner Energy Technologies Fee - \$500k
- Illinois Clean Energy Community Foundation - \$2M
- U of I Utilities - \$1M
- Office of the U of I Urbana-Champaign Chancellor - \$500k
- Office of the U of I President - \$500k



2010 Process

- Spring – Grant extended
- Fall – Questions about Request for Proposal (RFP)
 - Type of electrical connection
 - Lighting requirements
 - Height restrictions
 - Cold weather package
 - Clarification of the “turn-key” option expectations
 - Maintenance contract requirements



UI Energy Farm



RFP Results

- RFP
 - Issued October 27
 - Pre-proposal meeting November 12
 - Bids received November 30
- Five bids submitted
 - Twelve options submitted
 - reviewed by UI evaluation committee
 - 2011 construction schedules
 - Budget allows for only one turbine



Next Steps

- Complete Best and Final Offer negotiations
- Negotiate purchase contract
- UI Board of Trustees approval
- Address community concerns
 - Public meeting planned in January
 - Share results and answer additional questions
- Installation
 - Currently scheduled for 2011



Concerns

- Legal Requirements
- Public Engagement and Input
- Shadow Flicker
- Noise Issues
- Microwave Beams
- Property Values
- Cell phone reception
- Wireless Internet



Legal Requirements

“The University will comply with all applicable laws and regulations regarding its wind turbine project and intends to hold a public meeting about the project.

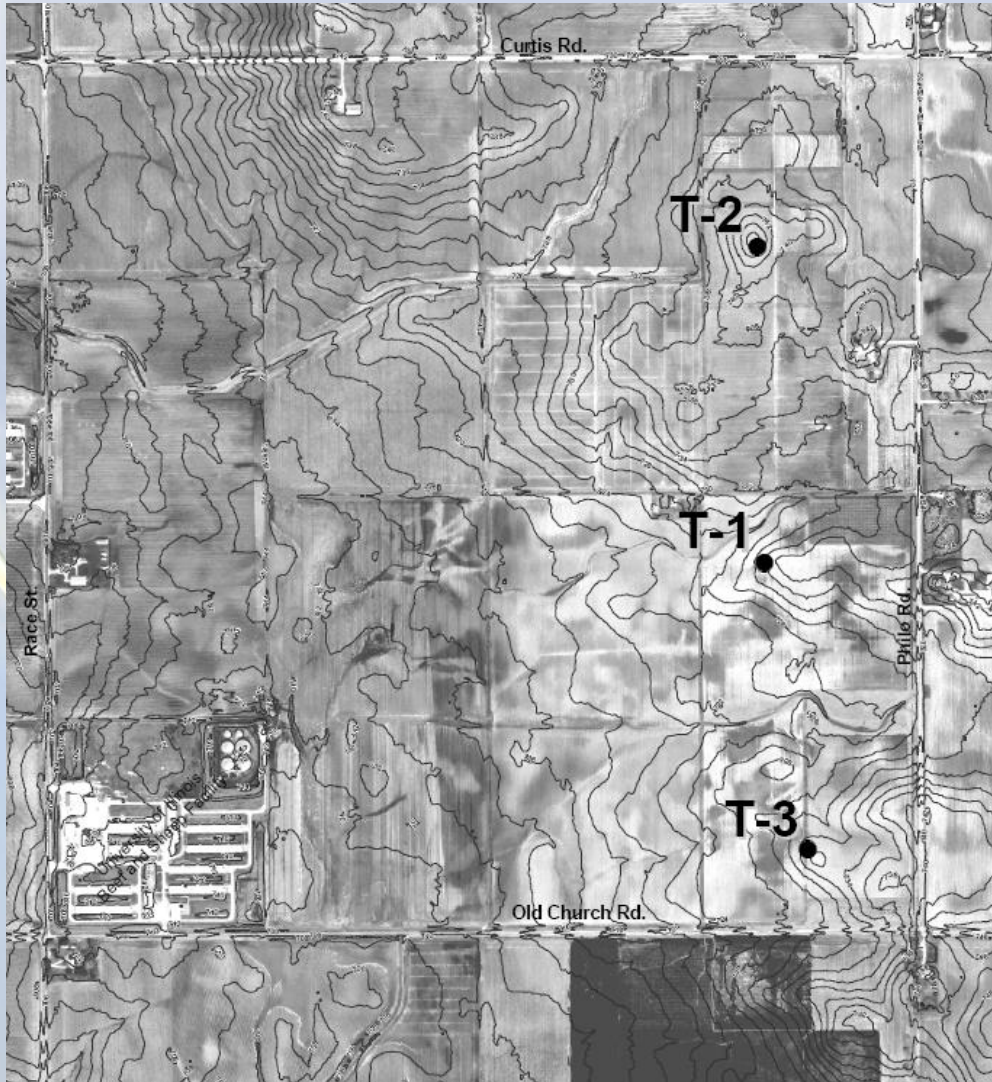
As a separate body corporate and politic of the State of Illinois, it has long been well established that the University is not subject to city codes and ordinances.

This would include the recently enacted Urbana wind turbine zoning ordinance.”

- University Legal Counsel



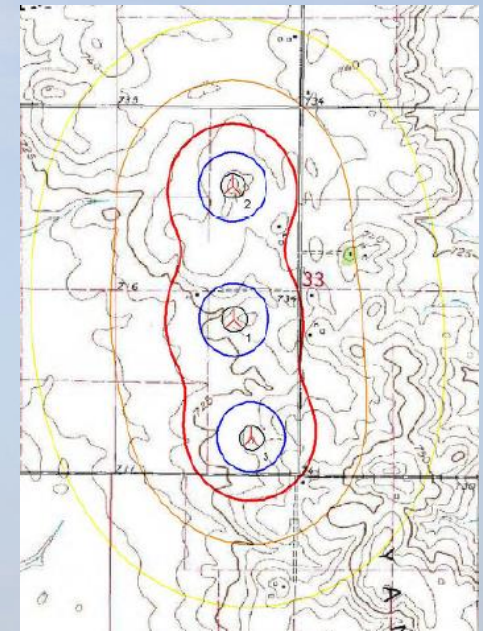
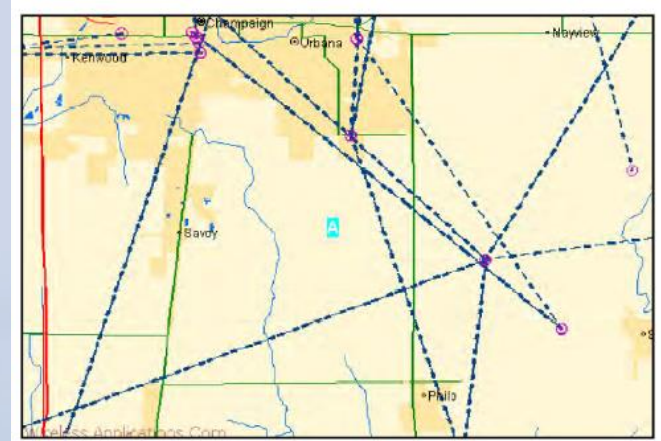
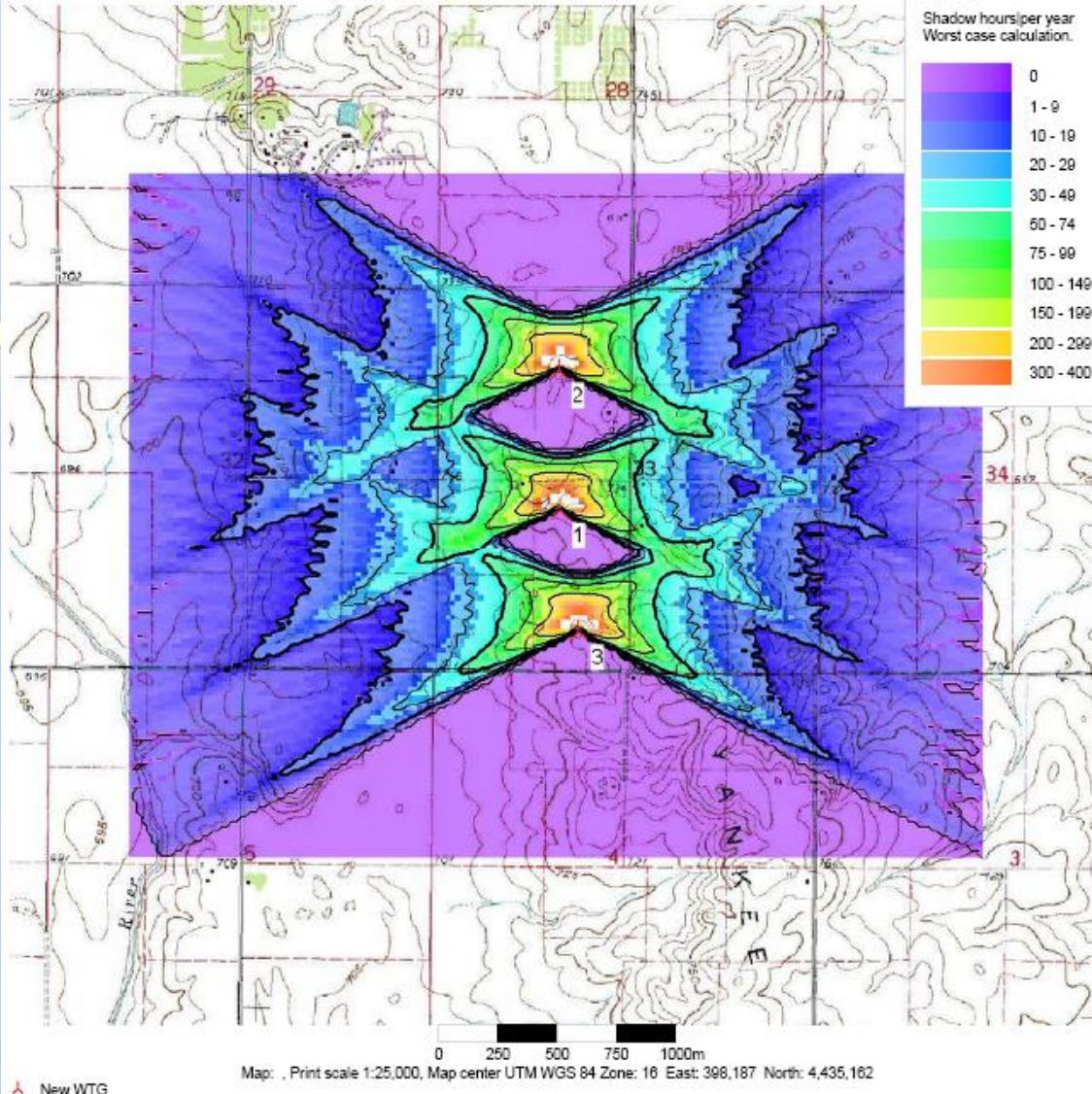
Public Engagement



Only T-3,
southernmost location



Preliminary Studies



Question/Comments

Thank You

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