



# Wind Turbine Project

## Background

Project Manager:  
 Project Assistant:  
 Cost: \$4.5M  
 Size: 1.5 megawatt, ~390 feet tall  
 Location: Southwest Quadrant - Philo and Curtis Roads  
 Construction Start: Summer 2009  
 Substantial Completion: Spring 2010  
 Subject Matter Expert:  
 Tom Abram, Sustainability Coordinator

In 2004, the University embarked on a project to install three, 1.5 megawatt wind turbines on the campus South Farms. Due to increasing costs and difficulty finding a suitable supplier, the original project was modified in 2008 to install one turbine.

- The University will own, operate and maintain the turbine
- Project currently in the design phase
- University is finalizing an agreement with General Electric (GE) to purchase one wind turbine with a tentative delivery date of October 2009
- Site construction tentatively scheduled to begin Summer 2009
- Turbine erection planned to begin Fall 2009
- Turbine scheduled to be operational Spring 2010
- \$4.5M funding breakdown is as follows:
  - ◇ Student Clean Energy Fee - \$300K
  - ◇ Illinois Clean Energy Community Foundation - \$2M
  - ◇ U of I Utilities - \$1.2M
  - ◇ Office of the U of I President - \$500K
  - ◇ Office of the U of I Urbana Chancellor - \$500K
- Site information:
  - ◇ Set up for future installation option of two additional turbines
  - ◇ Site study indicates noise level in closest developed area (Yankee Ridge subdivision) will be below 35 decibels, even if future expansion includes additional turbines
  - ◇ Federal Aviation Administration (FAA) granted approval as required for warning lights and proximity to Willard Airport
- Campus facilities will use 100 percent of the electricity generated by the wind turbine; the energy will feed directly into the University electric distribution system
- See attached general wind turbine fact sheet for additional information