

Arkansas Wind Turbine Plant LEED-Gold

Location: Fort Chaffee Crossing, AR

Owner: Mitsubishi

Reference: Doug Ross

Gray Construction

Lexington, KY

(859) 281-9201

Construction Budget: \$50M

Completion: January 2011



Pinnacle Energy Services provided commissioning services on this 235,000 LEED Gold mixed occupancy facility housing both an industrial space for assembling renewable energy wind turbines and a support area for administration and cafeteria.

The project was implemented in a phased approach which first addressed commissioning of the plant space totaling approximately 200,000sf. This industrial area included mission-critical clean rooms served by dedicated packaged units while the main plant floor was tempered by large, vertically-stacked, recirculating AHU's with Natural Gas heating and CHW cooling.

The second phase work included the remaining 35,000sf space which housed executive offices, conference rooms, a training room, and an employee cafeteria – all served by one multi-zone VAV RTU system.



A central chilled water plant, comprised of two air-source screw chillers served both the industrial and administration spaces. For chilled water plant testing Pinnacle coordinated closely with the construction team to “false load” the chiller and avoid having to wait for off-season testing of the screw chillers and associated VFD pumping system.

