



The Center for  
NewTech  
Turbine  
Upgrades

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# The Center

Center for NewTech Turbine Upgrades

The Center for NewTech Turbine Upgrades (**The Center**) was opened in May 2013 at the Glenville Business & Technology Park in Scotia, NY.

**CASE STUDY:** The first two General Electric gas turbine/generators being disassembled, inspected and upgraded are MS5001N package power plants manufactured in Schenectady, NY in the early 1970s. **Clarification:** the frame 5N gas turbines were built about 5 miles away from **The Center**, but the speed reduction gears and generators, Speedtronic™ control cabs and generator accessory cabs (GAC) were built at three other GE manufacturing facilities. These major components were assembled in the field at their original installation in Tecumseh, Kansas for Kansas Power & Light in 1971.

*Our team has GE-trained field engineers with the knowledge and experience to make the refurbishment a success!*

**NEEDS:** The refurbishment process is a max-case overhaul that includes all of the auxiliary systems and components therein. The reduction gear and accessory gears will be reconditioned and be operationally tested. Control systems will be modernized and generator and auxiliaries will be completely upgraded and tested.



JOBS DONE *RIGHT* THE FIRST TIME

## KNOWLEDGE + EXPERIENCE = SAVVY

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**RESULTS:** The company who purchased the power plants is from Montreal, Canada. The plants will be fully reconditioned with NewTech upgrades for a client in Venezuela, who operates a paper mill. Originally designed for peaking and emergency power generation in the mid-west, they will be "repurposed" for base load application, eventually employing a heat recovery steam generator (HRSG) on the turbine exhaust to produce process steam for the paper manufacturing processes.

"It seems reasonable to assume that relatively few engineers still active in the electric-power industry know as much about legacy GE® Gas Turbines and their auxiliaries and controls as Dave Lucier."

-Combined Cycle Journal, 2011

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